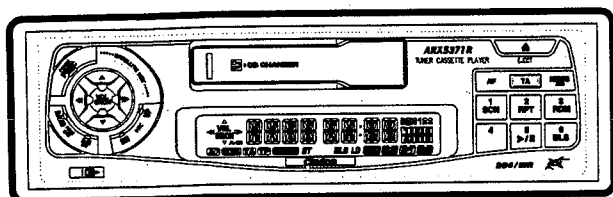


Service Manual



**RDS-EON/FM-MPX/MW/LW
Radio Cassette Combination
with CD Changer Control**

Model ARX5371R
(PE-1598E-A)

■ ORIGINAL SERVICE MANUAL

This additional service manual is designed to be used together with Model PE-1531E

Original model	Manual No.
ARX5370R (PE-1531E)	298-5583-00

■ DIFFERENCE FROM ORIGINAL MODEL

- 1.EXPLODED VIEW · PARTS LIST
- 2.ELECTRICAL PARTS LIST
- 3.CIRCUIT DIAGRAM
- 4.PRINTED WIRING BOARD

■ COMPONENTS

PE-1598E-A

Main Unit		1
Mounting Bracket	300-9677-00	1
Outer-Es	370-9006-35	1
A-Lead	850-6688-50	1
DCP Case	335-5331-00	1
Part's Bag		
Hook Plate	331-0488-00	2
(alternative part)	330-8216-01	2)
Cable Tie	335-0833-07	1
Spacer	345-3653-01	1
Screw	716-0726-01	1

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suf-

fering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc., is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly sus-

ceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

■ ELECTRICAL PARTS LIST:

• ARX5371R(PE-1598E-A)

Main PWB section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC 201	051-1819-50	SAA6579T	Q 805	125-2003-02	RN1202	C 105	178-1022-05	50V 1000PF
IC 202	051-0350-55	BA4558	Q 806	125-0003-02	RN2202	C 106	180-1053-63	50V 1 μ F
IC 203	051-6201-00	LC72146	D 101	001-0376-69	MTZ18JB	C 107	178-2732-05	25V 0.027 μ F
IC 301	051-1014-10	TA7291S	D 102	001-0330-00	1SS119	C 108	178-2732-05	25V 0.027 μ F
IC 501	052-1906-01	uPD178016	D 103	001-0330-00	1SS119	C 109	178-1522-05	50V 1500PF
IC 502	051-0160-01	HD74LS07P	D 104	001-0376-69	MTZ18JB	C 110	178-1032-05	25V 0.01 μ F
IC 701	051-5008-00	M62419FP	D 201	001-0330-00	1SS119	C 111	178-6822-05	50V 6800PF
IC 801	051-2009-00	TDA8561Q	D 202	001-0330-00	1SS119	C 112	178-1032-05	25V 0.01 μ F
IC 802	051-2009-00	TDA8561Q	D 301	001-0376-43	MTZ8.2JA	C 113	178-1032-05	25V 0.01 μ F
Q 101	108-0669-00	2SK669	D 302	001-0330-00	1SS119	C 114	184-2273-22	10V 220 μ F
Q 102	100-1548-00	2SA1548	D 501	001-0330-00	1SS119	C 115	178-1222-05	50V 1200PF
Q 103	100-1548-00	2SA1548	D 503	001-0330-00	1SS119	C 116	178-4732-05	25V 0.047 μ F
Q 201	125-0003-02	RN2202	D 504	001-0330-00	1SS119	C 117	183-3343-61	50V 0.33 μ F
Q 202	103-1450-00	2SD1450	D 601	001-0376-33	MTZ5.6JC	C 118	178-1032-05	25V 0.01 μ F
Q 203	125-0003-02	RN2202	D 602	001-0330-00	1SS119	C 119	178-8222-05	50V 8200PF
Q 204	125-2003-02	RN1202	D 603	001-0330-00	1SS119	C 201	176-3311-00	50V 330PF
Q 205	125-2003-02	RN1202	D 604	001-0376-48	MTZ9.1JC	C 202	176-3311-00	50V 330PF
Q 301	101-1243-00	2SB1243	D 605	001-0376-48	MTZ9.1JC	C 203	176-8201-00	50V 82PF
Q 302	125-2003-06	RN1206	D 606	001-0376-36	MTZ6.2JC	C 204	176-4701-00	50V 47PF
Q 303	101-1243-00	2SB1243	D 608	001-0376-45	MTZ8.2JC	C 205	178-1042-05	25V 0.1 μ F
Q 304	125-2003-06	RN1206	D 609	001-0330-00	1SS119	C 206	183-2253-61	50V 2.2 μ F
Q 501	125-0003-02	RN2202	D 610	001-0330-00	1SS119	C 207	183-1063-31	16V 10 μ F
Q 502	102-2458-51	2SC2458	D 611	001-0466-00	S5688	C 208	176-5611-00	50V 560PF
Q 504	125-2003-02	RN1202	D 612	001-0330-00	1SS119	C 209	176-5611-00	50V 560PF
Q 601	101-1237-00	2SB1237	D 613	001-0330-00	1SS119	C 210	176-5611-00	50V 560PF
Q 602	102-1846-50	2SC1846	D 701	001-0376-23	MTZ4.3JB	C 211	178-2232-05	25V 0.022 μ F
Q 603	103-1858-00	2SD1858	D 801	001-0376-29	MTZ5.1JB	C 212	178-2232-05	25V 0.022 μ F
Q 604	103-1858-00	2SD1858	D 802	001-0330-00	1SS119	C 213	178-1032-05	25V 0.01 μ F
Q 605	103-1858-00	2SD1858	D 803	001-0188-01	1S1885A	C 214	177-3312-05	50V 330PF
Q 606	103-1858-00	2SD1858	L 101	010-9000-05	5.6 μ H	C 215	178-1042-05	25V 0.1 μ F
Q 607	125-0003-02	RN2202	L 102	010-9000-05	5.6 μ H	C 216	182-4743-63	50V 0.47 μ F
Q 608	102-2458-51	2SC2458	L 201	010-9000-01	120 μ H	C 217	176-2701-00	50V 27PF
Q 609	101-1243-00	2SB1243	L 501	010-9000-01	120 μ H	C 218	176-2701-00	50V 27PF
Q 610	125-2003-02	RN1202	L 502	010-9000-01	120 μ H	C 219	183-2253-61	50V 2.2 μ F
Q 611	100-1048-00	2SA1048	L 601	010-9000-01	120 μ H	C 220	176-1011-00	50V 100PF
Q 612	101-1237-00	2SB1237	L 801	009-9006-50	0.4MHz	C 221	176-1011-00	50V 100PF
Q 613	125-2003-02	RN1202	X 201	061-9001-50	4.332MHz	C 222	176-1011-00	50V 100PF
Q 614	125-2003-02	RN1202	X 202	061-9002-50	7.2MHz	C 223	176-1011-00	50V 100PF
Q 615	125-2003-02	RN1202	X 501	060-1023-00	4.5MHz	C 224	178-1032-05	25V 0.01 μ F
Q 618	125-2003-02	RN1202	C 101	174-1800-13	50V 18PF	C 225	183-4763-11	6.3V 47 μ F
Q 619	125-0003-02	RN2202	C 102	178-1032-05	25V 0.01 μ F	C 226	178-1042-05	25V 0.1 μ F
Q 803	103-1450-00	2SD1450	C 103	178-1032-05	25V 0.01 μ F	C 301	177-1042-05	50V 0.1 μ F
Q 804	103-1450-00	2SD1450	C 104	042-9003-00	10V 100 μ F	C 302	177-1022-05	50V 1000PF

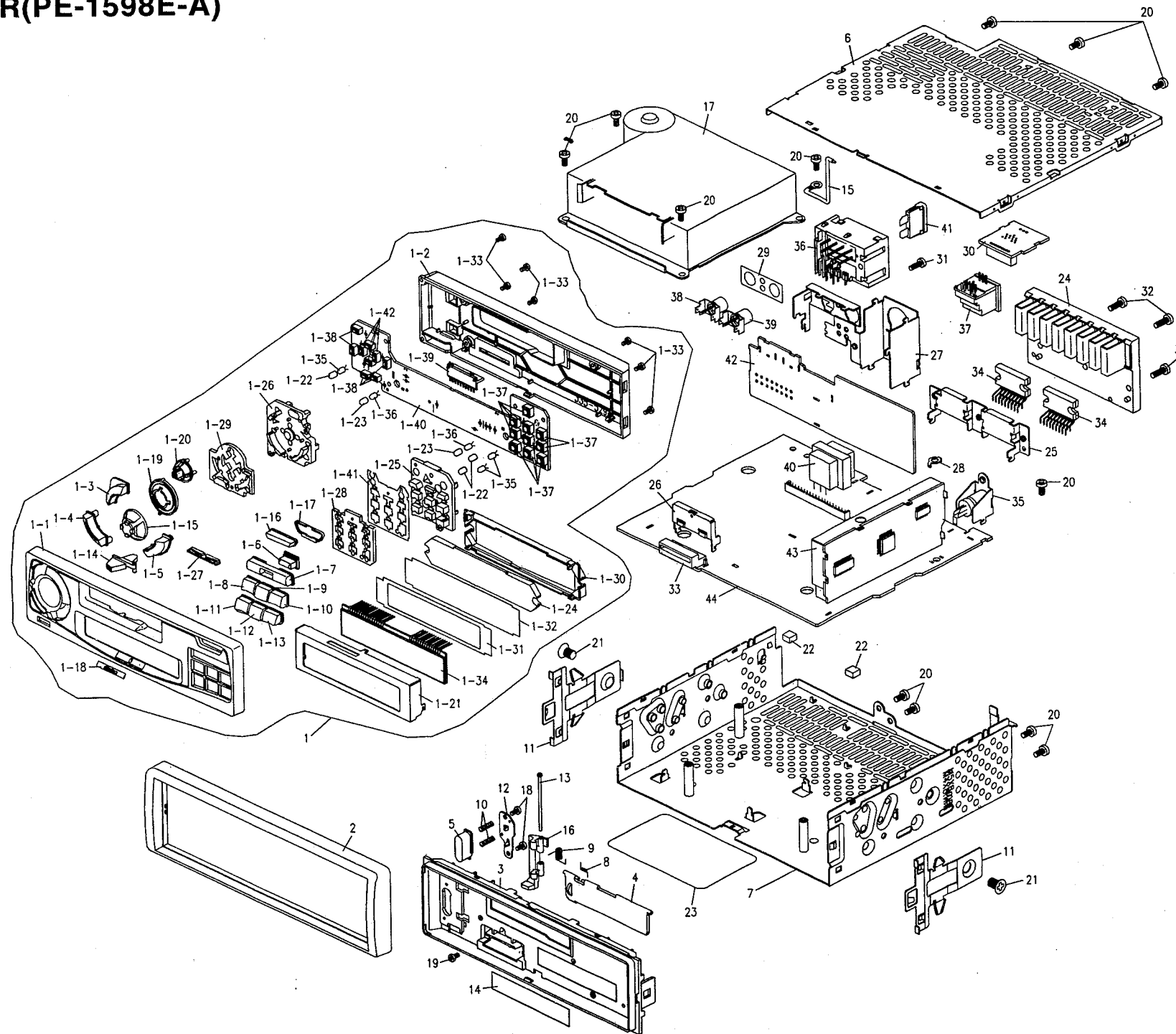
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 303	182-1073-33	16V 100 μ F	C 727	182-4763-23	10V 47 μ F	R 305	111-6811-81	1/2WS 680 Ω
C 304	177-1022-05	50V 1000PF	C 801	173-1042-10	50V 0.1 μ F	R 306	111-1031-91	1/4WSS 10K Ω
C 305	177-1022-05	50V 1000PF	C 802	042-9002-00	50V 0.47 μ F(LN)	R 307	117-1031-10	1/10W 10K Ω
C 306	178-1022-05	50V 1000PF	C 803	042-9002-00	50V 0.47 μ F(LN)	R 501	111-2221-91	1/4WSS 2.2K Ω
C 307	178-1022-05	50V 1000PF	C 804	042-9002-00	50V 0.47 μ F(LN)	R 502	111-2221-91	1/4WSS 2.2K Ω
C 308	178-1022-05	50V 1000PF	C 805	042-9002-00	50V 0.47 μ F(LN)	R 503	117-4721-10	1/10W 4.7K Ω
C 309	178-1022-05	50V 1000PF	C 806	042-0447-00	16V 2200 μ F	R 504	117-5621-10	1/10W 5.6K Ω
C 310	178-1022-05	50V 1000PF	C 809	183-1063-31	16V 10 μ F	R 505	117-1031-10	1/10W 10K Ω
C 311	178-1032-05	25V 0.01 μ F	C 810	183-1063-31	16V 10 μ F	R 506	117-1031-10	1/10W 10K Ω
C 409	182-2253-63	50V 2.2 μ F	C 811	178-1022-05	50V 1000PF	R 507	117-1021-10	1/10W 1K Ω
C 410	182-2253-63	50V 2.2 μ F	C 812	178-2232-05	25V 0.022 μ F	R 508	117-1031-10	1/10W 10K Ω
C 501	178-1032-05	25V 0.01 μ F	R 101	117-7531-10	1/10W 75K Ω	R 509	117-1031-10	1/10W 10K Ω
C 502	176-2201-00	50V 22PF	R 102	117-1831-10	1/10W 18K Ω	R 510	117-1031-10	1/10W 10K Ω
C 503	178-1032-05	25V 0.01 μ F	R 103	117-1021-10	1/10W 1K Ω	R 511	117-1031-10	1/10W 10K Ω
C 504	182-4763-23	10V 47 μ F	R 104	117-5631-10	1/10W 56K Ω	R 512	111-1031-91	1/4WSS 10K Ω
C 505	177-4732-05	25V 0.047 μ F	R 105	117-1231-10	1/10W 12K Ω	R 513	117-1031-10	1/10W 10K Ω
C 506	178-1032-05	25V 0.01 μ F	R 106	117-1021-10	1/10W 1K Ω	R 514	117-1031-10	1/10W 10K Ω
C 507	184-1073-29	10V 100 μ F	R 107	117-2231-10	1/10W 22K Ω	R 515	117-1031-10	1/10W 10K Ω
C 509	178-4732-05	25V 0.047 μ F	R 108	117-4721-10	1/10W 4.7K Ω	R 516	117-4731-10	1/10W 47K Ω
C 602	042-9003-00	10V 100 μ F	R 109	117-2241-10	1/10W 220K Ω	R 517	117-2231-10	1/10W 22K Ω
C 603	171-1032-06	25V 0.01 μ F	R 110	117-1031-10	1/10W 10K Ω	R 521	117-1021-10	1/10W 1K Ω
C 604	180-1063-53	35V 10 μ F	R 111	116-2221-10	1/8W 2.2K Ω	R 522	116-1021-10	1/8W 1K Ω
C 605	182-4763-23	10V 47 μ F	R 112	111-1031-91	1/4WSS 10K Ω	R 523	117-1021-10	1/10W 1K Ω
C 606	182-1063-33	16V 10 μ F	R 113	111-1031-91	1/4WSS 10K Ω	R 524	117-1021-10	1/10W 1K Ω
C 607	171-1032-06	25V 0.01 μ F	R 114	111-2221-91	1/4WSS 2.2K Ω	R 525	117-1021-10	1/10W 1K Ω
C 608	178-1032-05	25V 0.01 μ F	R 115	116-2221-10	1/8W 2.2K Ω	R 526	117-1021-10	1/10W 1K Ω
C 610	171-1032-06	25V 0.01 μ F	R 116	117-1231-10	1/10W 12K Ω	R 527	117-1021-10	1/10W 1K Ω
C 701	182-1063-33	16V 10 μ F	R 117	111-2711-91	1/4WSS 270 Ω	R 528	111-1001-91	1/4WSS 10 Ω
C 702	183-2253-61	50V 2.2 μ F	R 118	111-3311-91	1/4WSS 330 Ω	R 529	117-1021-10	1/10W 1K Ω
C 703	178-4732-05	25V 0.047 μ F	R 201	117-1031-10	1/10W 10K Ω	R 601	111-1021-91	1/4WSS 1K Ω
C 704	183-2253-61	50V 2.2 μ F	R 202	117-1031-10	1/10W 10K Ω	R 602	111-1031-91	1/4WSS 10K Ω
C 705	182-1063-33	16V 10 μ F	R 203	117-2221-10	1/10W 2.2K Ω	R 603	117-2231-10	1/10W 22K Ω
C 706	184-1073-29	10V 100 μ F	R 204	117-3331-10	1/10W 33K Ω	R 604	117-1231-10	1/10W 12K Ω
C 707	174-5600-13	50V 56PF	R 205	117-3321-10	1/10W 3.3K Ω	R 605	111-1021-91	1/4WSS 1K Ω
C 708	176-1511-00	50V 150PF	R 206	117-2231-10	1/10W 22K Ω	R 606	111-2291-91	1/4WSS 2.2 Ω
C 709	182-4753-63	50V 4.7 μ F	R 207	117-1031-10	1/10W 10K Ω	R 607	111-2291-91	1/4WSS 2.2 Ω
C 710	178-8232-05	25V 0.082 μ F	R 208	117-1231-10	1/10W 12K Ω	R 608	111-4711-81	1/2WS 470 Ω
C 711	182-2253-63	50V 2.2 μ F	R 209	117-3331-10	1/10W 33K Ω	R 609	111-2291-91	1/4WSS 2.2 Ω
C 712	182-2263-33	16V 22 μ F	R 210	117-1021-10	1/10W 1K Ω	R 610	111-2291-91	1/4WSS 2.2 Ω
C 713	178-5622-05	50V 5600PF	R 211	117-2211-10	1/10W 220 Ω	R 611	111-4711-81	1/2WS 470 Ω
C 714	178-5632-05	25V 0.056 μ F	R 212	117-1041-10	1/10W 100K Ω	R 612	117-1041-10	1/10W 100K Ω
C 715	178-5622-05	50V 5600PF	R 213	117-2221-10	1/10W 2.2K Ω	R 613	117-1041-10	1/10W 100K Ω
C 716	182-1063-33	16V 10 μ F	R 214	117-1021-10	1/10W 1K Ω	R 614	111-5611-81	1/2WS 560 Ω
C 717	174-5600-13	50V 56PF	R 215	117-1021-10	1/10W 1K Ω	R 615	111-1031-91	1/4WSS 10K Ω
C 718	176-1511-00	50V 150PF	R 216	117-1021-10	1/10W 1K Ω	R 616	117-1031-10	1/10W 10K Ω
C 719	182-4753-63	50V 4.7 μ F	R 217	117-1021-10	1/10W 1K Ω	R 617	111-1591-91	1/4WSS 1.5 Ω
C 720	178-8232-05	25V 0.082 μ F	R 218	117-1031-10	1/10W 10K Ω	R 618	111-1591-91	1/4WSS 1.5 Ω
C 721	182-2253-63	50V 2.2 μ F	R 219	117-1031-10	1/10W 10K Ω	R 619	111-1591-91	1/4WSS 1.5 Ω
C 722	182-2263-33	16V 22 μ F	R 220	117-1031-10	1/10W 10K Ω	R 620	111-1591-91	1/4WSS 1.5 Ω
C 723	178-5622-05	50V 5600PF	R 301	111-6811-81	1/2WS 680 Ω	R 621	117-1031-10	1/10W 10K Ω
C 724	178-5632-05	25V 0.056 μ F	R 302	111-1031-91	1/4WSS 10K Ω	R 622	111-2221-91	1/4WSS 2.2K Ω
C 725	178-5622-05	50V 5600PF	R 303	114-2291-11	1WS 2.2 Ω	R 623	111-1031-91	1/4WSS 10K Ω
C 726	182-1063-33	16V 10 μ F	R 304	111-2221-91	1/4WSS 2.2K Ω	R 624	111-1221-91	1/4WSS 1.2K Ω

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R 625	117-4721-10	1/10W 4.7K Ω	R 709	117-6831-10	1/10W 68K Ω	R 813	117-1031-10	1/10W 10K Ω
R 626	116-2231-10	1/8W 22K Ω	R 710	117-6821-10	1/10W 6.8K Ω	R 814	117-3311-10	1/10W 330 Ω
R 629	117-1531-10	1/10W 15K Ω	R 711	117-1231-10	1/10W 12K Ω	R 815	117-3311-10	1/10W 330 Ω
R 630	111-4711-91	1/4WSS 470 Ω	R 712	117-4721-10	1/10W 4.7K Ω	R 816	117-5621-10	1/10W 5.6K Ω
R 633	117-1041-10	1/10W 100K Ω	R 713	117-2431-10	1/10W 24K Ω	R 817	117-5621-10	1/10W 5.6K Ω
R 701	117-4731-10	1/10W 47K Ω	R 714	117-6821-10	1/10W 6.8K Ω	CN 101	074-1112-00	OUTET SOCKET
R 702	117-6831-10	1/10W 68K Ω	R 715	111-3311-91	1/4WSS 330 Ω	CN 102	076-0433-20	PLUG
R 703	117-6821-10	1/10W 6.8K Ω	R 801	117-3321-10	1/10W 3.3K Ω	CN 103	074-1022-01	OUTET SOCKET
R 704	117-1231-10	1/10W 12K Ω	R 802	117-4721-10	1/10W 4.7K Ω	CN 104	074-1115-10	OUTET SOCKET
R 705	117-4721-10	1/10W 4.7K Ω	R 803	117-4721-10	1/10W 4.7K Ω	CN 105	075-9004-00	JACK(WHITE)
R 706	117-2431-10	1/10W 24K Ω	R 804	117-4721-10	1/10W 4.7K Ω	CN 106	075-9003-00	RCA JACK(RED)
R 707	117-6821-10	1/10W 6.8K Ω	R 805	117-4721-10	1/10W 4.7K Ω			
R 708	117-4731-10	1/10W 47K Ω	R 812	117-1031-10	1/10W 10K Ω			

Switch PWB section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC 101	051-6013-00	LC75854W	PL 102	017-0441-00	9V 85mA	S 110	013-3812-11	SKQCAC(260G)
C 101	178-1022-05	50V 1000P	PL 103	017-0444-00	14V 50mA	S 111	013-6002-50	SKHVBC3430CR
C 102	178-4735-06	25V 0.047 μ F	PL 104	017-0444-00	14V 50mA	S 112	013-6002-50	SKHVBC3430CR
C 103	178-4735-06	25V 0.047 μ F	PL 105	017-0444-00	14V 50mA	S 113	013-6001-50	SKQCAB
C 104	178-4735-06	25V 0.047 μ F	S 101	013-6002-50	SKHVBC3430CR	S 114	013-6001-50	SKQCAB
R 101	117-2221-10	1/10W 2.2K Ω	S 102	013-6002-50	SKHVBC3430CR	S 115	013-6001-50	SKQCAB
R 102	117-2221-10	1/10W 2.2K Ω	S 103	013-6002-50	SKHVBC3430CR	S 116	013-6002-50	SKHVBC3430CR
R 103	117-2221-10	1/10W 2.2K Ω	S 104	013-3812-11	SKQCAC(260G)	S 117	013-3812-11	SKQCAC(260G)
R 104	117-4731-10	1/10W 47K Ω	S 105	013-6001-50	SKQCAB	S 118	013-3812-11	SKQCAC(260G)
R 105	117-1031-10	1/10W 10K Ω	S 106	013-6002-50	SKHVBC3430CR	S 119	013-6002-50	SKHVBC3430CR
R 106	117-1241-10	1/10W 120K Ω	S 107	013-6002-50	SKHVBC3430CR	CN 101	076-0522-00	PLUG
R 107	117-3921-10	1/10W 3.9K Ω	S 107	013-6002-50	SKHVBC3430CR			
PL 101	017-0441-00	9V 85mA	S 109	013-3812-11	SKQCAC(260G)			

■ EXPLODED VIEW • PARTS LIST: • ARX5371R(PE-1598E-A)



No.	PART No.	DESCRIPTION	Q'TY
1	940-1883A	ES ASSY	1
1-1	370-5643-02	ESCUTCHEON	1
1-2	335-5294-00	REAR COVER	1
1-3	382-4393-20	BUTTON(FUNC/POWER)	1
1-4	382-4394-22	BUTTON(BAND/A-M)	1
1-5	382-4396-21	BUTTON(UP/DOWN)	1
1-6	382-4413-20	BUTTON(TA)	1
1-7	382-4414-20	BUTTON(AF/NEWS)	1
1-8	382-4418-21	BUTTON(1)	1
1-9	382-4419-21	BUTTON(2)	1
1-10	382-4420-21	BUTTON(3)	1

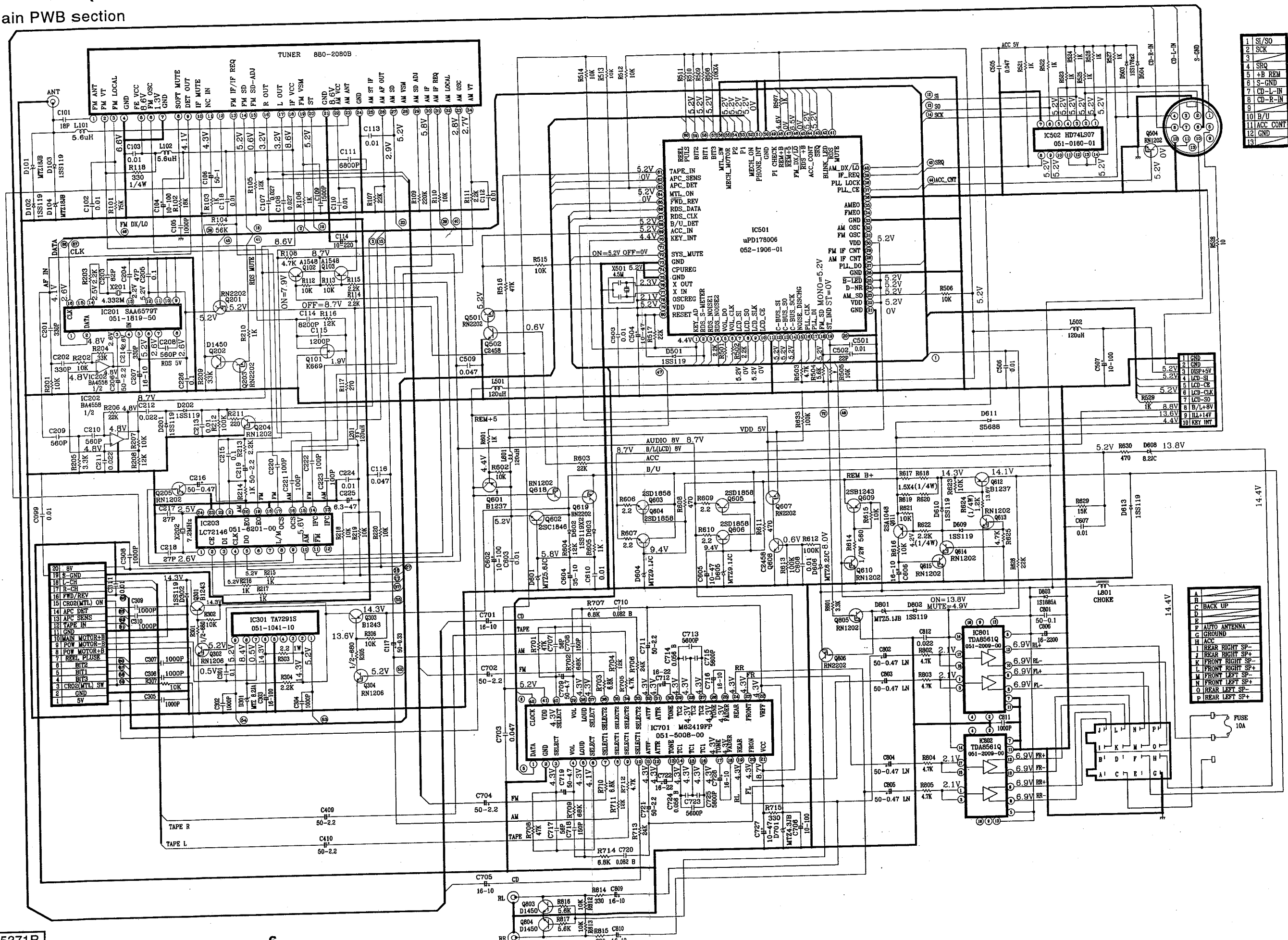
1-11	382-4421-22	BUTTON(4)	1
1-12	382-4422-21	BUTTON(5)	1
1-13	382-4423-23	BUTTON(6)	1
1-14	382-4470-00	BUTTON(RELEASE)	1
1-15	380-5394-20	KNOB(VOL)	1
1-16	382-4468-00	BUTTON(EJE)	1
1-17	335-5301-00	BUTTON HOLDER	1
1-18	378-0134-00	BADGE	1
1-19	335-5297-00	JOG PLATE	1
1-20	335-5298-00	JOG ARM	1
1-21	331-1999-00	LCD COVER	1
1-22	345-4441-37	LAMP CAP(BLUE)	3

1-23	345-4441-81	LAMP CAP(YELLOW)	2
1-24	335-5308-00	LCD ILLUMINATION PLATE	1
1-25	335-5304-00	ILLUMINATION PLATE(R)	1
1-26	335-5307-00	ILLUMINATION PLATE(L)	1
1-27	335-4874-00	ILLUMI-PLATE(DOOR)	1
1-28	345-7818-01	SPONGE(L)	1
1-29	345-7815-00	SPONGE(R)	1
1-30	335-5309-00	LCD HOLDER	1
1-31	347-5366-00	FILM(LCD)(MYLAR)	1
1-32	347-5365-00	SHADE(LCD)(KIMOTO)	1
1-33	716-1721-00	P-TIGHT SCREW	7
1-34	379-1103-41	LCD	1

No.	PART No.	DESCRIPTION	Q'TY
1-35	017-0444-00	PILOT LAMP(14V 50mA)	3
1-36	017-0441-00	PILOT LAMP(9V 85mA)	2
1-37	013-6002-50	TACT SWITCH	10
1-38	013-3812-11	TACT SWITCH	5
1-39	076-0522-00	PLUG	1
1-40	039-0847-00	SWITCH PWB	1
1-41	347-5402-00	SHADE(R)	1
1-42	013-6001-50	TACT SWITCH	4
2	370-9006-32	OUT-ESCUTCHEON	1
3	370-5653-02	INNER ESCUTCHEON	1
4	320-0526-28	DUSTPROOF COVER	1
5	382-4078-00	BUTTON(PUSH-OUT)	1
6	310-1571-00	UPPER CASE	1
7	311-1697-01	LOWER CASE	1
8	750-3217-00	SPRING(DOOR)	1
9	750-3219-00	SPRING(HOOK)	1
10	750-3173-00	SPRING(PUSH-OUT)	2
11	750-3137-00	SPRING	2
12	331-0588-20	SPRING HOLDER	1
13	341-1627-00	SHAFT	1
14	291-0067-00	STICKER	1
15	850-6688-50	A-LEAD	1
16	335-5312-00	HOOK	1
17	930-0738-81	TAPE MECHANISM	1
18	716-0778-00	WAVE SCREW	2
19	714-2004-19	MACHINE SCREW	1
20	714-3005-80	MACHINE SCREW	12
21	714-5008-41	MACHINE SCREW	2
22	345-7560-00	RUBBER PART	2
23	286-8894-01	SET PLATE	1
24	313-1616-00	HEAT SINK	1
25	331-0613-00	CONN-HOLDER	1
26	331-0606-00	DCP CONN. BRACKET	1
27	331-1856-20	CONNECTOR HOLDER	1
28	331-0643-00	EARTH PLATE	1
29	347-5100-00	SPACER(RCA)	1
30	039-0428-00	PWB(C-BUS)	1
31	714-2610-10	MACHINE SCREW	1
32	714-3010-80	MACHINE SCREW	3
33	074-1112-00	DCP CONNECTOR(F)	1
34	051-2009-00	POWER IC	2
35	092-9000-01	ANT. RECEIPT	1
36	074-1115-10	OUTLET SOCKET	1
37	074-1022-01	CONNECTOR(13 PIN)	1
38	075-9004-00	RCA JACK(RED)	1
39	075-9003-00	RCA JACK(WHITE)	1
40	009-9006-50	CHOKE	1
41	060-0057-56	AUTO FUSE	1
42	039-0841-00	CONNECTOR PWB	1
43	880-2080B	TUNER ASSY	1
44	039-1065-01	MAIN PWB	1

• ARX5371R(PE-1598E-A)

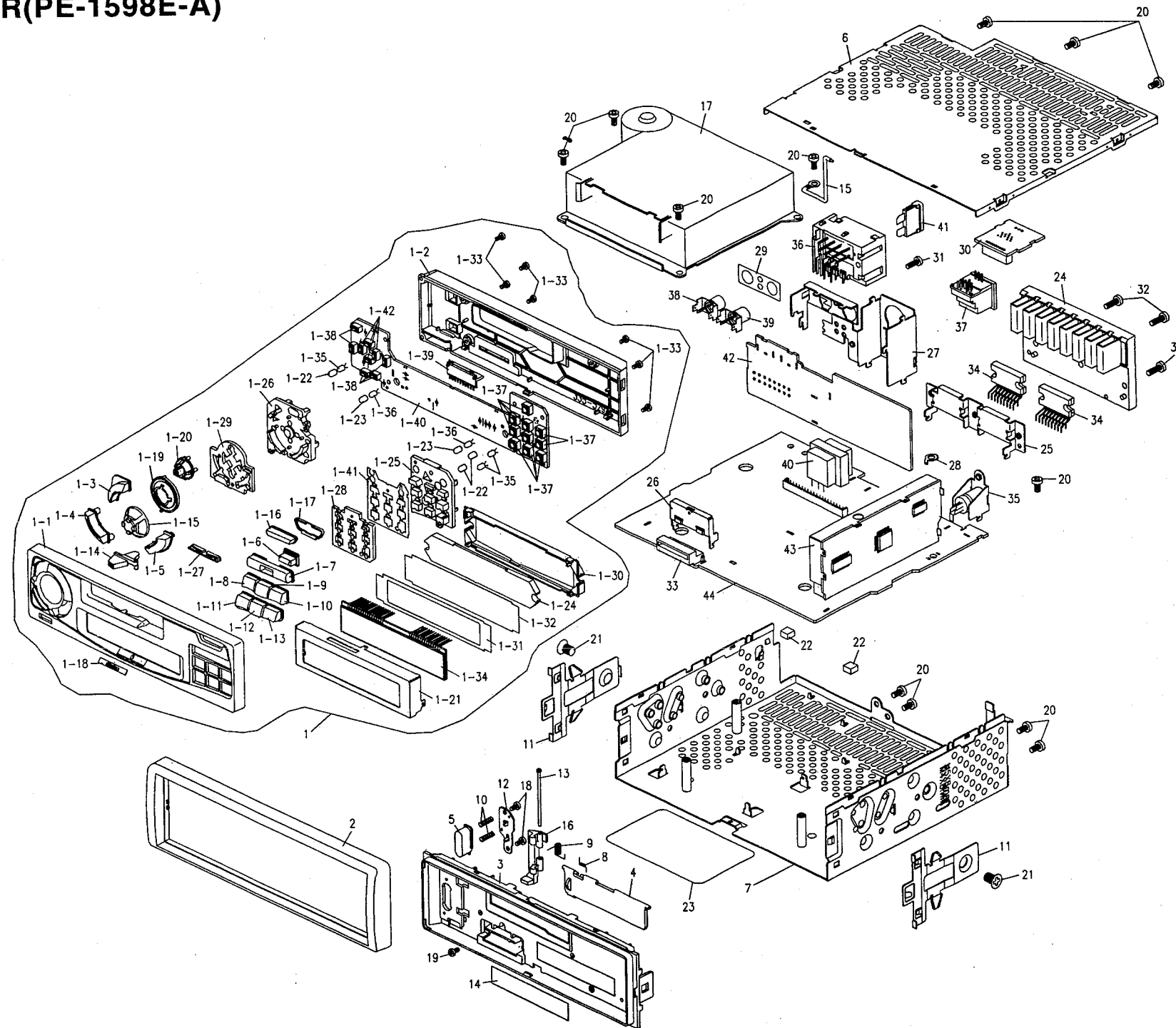
Main PWB section



1	SI/SO
2	SCK
3	
4	SRQ
5	+B REM
6	S-GND
7	CD-L-IN
8	CD-R-IN
9	
10	B/U
11	ACC CONT
12	GND
13	

A	
B	
C	BACK UP
D	
E	
F	AUTO ANTENNA
G	GROUND
H	ACC
I	REAR RIGHT SP-
J	REAR RIGHT SP+
K	FRONT RIGHT SP-
L	FRONT RIGHT SP+
M	FRONT LEFT SP-
N	FRONT LEFT SP+
O	REAR LEFT SP-
P	REAR LEFT SP+

• **ARX5371R(PE-1598E-A)**



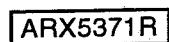
No.	PART No.	DESCRIPTION	Q'TY
1	940-1883A	ES ASSY	1
1-1	370-5643-02	ESCUTCHEON	1
1-2	335-5294-00	REAR COVER	1
1-3	382-4393-20	BUTTON(FUNC/POWER)	1
1-4	382-4394-22	BUTTON(BAND/A-M)	1
1-5	382-4396-21	BUTTON(UP/DOWN)	1
1-6	382-4413-20	BUTTON(TA)	1
1-7	382-4414-20	BUTTON(AF/NEWS)	1
1-8	382-4418-21	BUTTON(1)	1
1-9	382-4419-21	BUTTON(2)	1
1-10	382-4420-21	BUTTON(3)	1

1-11	382-4421-22	BUTTON(4)	1
1-12	382-4422-21	BUTTON(5)	1
1-13	382-4423-23	BUTTON(6)	1
1-14	382-4470-00	BUTTON(RELEASE)	1
1-15	380-5394-20	KNOB(VOL)	1
1-16	382-4468-00	BUTTON(EJE)	1
1-17	335-5301-00	BUTTON HOLDER	1
1-18	378-0134-00	BADGE	1
1-19	335-5297-00	JOG PLATE	1
1-20	335-5298-00	JOG ARM	1
1-21	331-1999-00	LCD COVER	1
1-22	345-4441-37	LAMP CAP(BLUE)	3

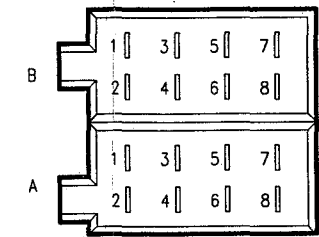
1-23	345-4441-81	LAMP CAP(YELLOW)	2
1-24	335-5308-00	LCD ILLUMINATION PLATE	1
1-25	335-5304-00	ILLUMINATION PLATE(R)	1
1-26	335-5307-00	ILLUMINATION PLATE(L)	1
1-27	335-4874-00	ILLUMI-PLATE(DOOR)	1
1-28	345-7818-01	SPONGE(L)	1
1-29	345-7815-00	SPONGE(R)	1
1-30	335-5309-00	LCD HOLDER	1
1-31	347-5366-00	FILM(LCD)(MYLAR)	1
1-32	347-5365-00	SHADE(LCD)(KIMOTO)	1
1-33	716-1721-00	P-TIGHT SCREW	7
1-34	379-1103-41	LCD	1

No.	PART No.	DESCRIPTION	Q'TY
1-35	017-0444-00	PILOT LAMP(14V 50mA)	3
1-36	017-0441-00	PILOT LAMP(9V 85mA)	2
1-37	013-6002-50	TACT SWITCH	10
1-38	013-3812-11	TACT SWITCH	5
1-39	076-0522-00	PLUG	1
1-40	039-0847-00	SWITCH PWB	1
1-41	347-5402-00	SHADE(R)	1
1-42	013-6001-50	TACT SWITCH	4
2	370-9006-32	OUT-ESCUTCHEON	1
3	370-5653-02	INNER ESCUTCHEON	1
4	320-0526-28	DUSTPROOF COVER	1
5	382-4078-00	BUTTON(PUSH-OUT)	1
6	310-1571-00	UPPER CASE	1
7	311-1697-01	LOWER CASE	1
8	750-3217-00	SPRING(DOOR)	1
9	750-3219-00	SPRING(HOOK)	1
10	750-3173-00	SPRING(PUSH-OUT)	2
11	750-3137-00	SPRING	2
12	331-0588-20	SPRING HOLDER	1
13	341-1627-00	SHAFT	1
14	291-0067-00	STICKER	1
15	850-6688-50	A-LEAD	1
16	335-5312-00	HOOK	1
17	930-0738-81	TAPE MECHANISM	1
18	716-0778-00	WAVE SCREW	2
19	714-2004-19	MACHINE SCREW	1
20	714-3005-80	MACHINE SCREW	12
21	714-5008-41	MACHINE SCREW	2
22	345-7560-00	RUBBER PART	2
23	286-8894-01	SET PLATE	1
24	313-1616-00	HEAT SINK	1
25	331-0613-00	CONN-HOLDER	1
26	331-0606-00	DCP CONN. BRACKET	1
27	331-1856-20	CONNECTOR HOLDER	1
28	331-0643-00	EARTH PLATE	1
29	347-5100-00	SPACER(RCA)	1
30	039-0428-00	PWB(C-BUS)	1
31	714-2610-10	MACHINE SCREW	1
32	714-3010-80	MACHINE SCREW	3
33	074-1112-00	DCP CONNECTOR(F)	1
34	051-2009-00	POWER IC	2
35	092-9000-01	ANT. RECEPT	1
36	074-1115-10	OUTLET SOCKET	1
37	074-1022-01	CONNECTOR(13 PIN)	1
38	075-9004-00	RCA JACK(RED)	1
39	075-9003-00	RCA JACK(WHITE)	1
40	009-9006-50	CHOKE	1
41	060-0057-56	AUTO FUSE	1
42	039-0841-00	CONNECTOR PWB	1
43	880-2080B	TUNER ASSY	1
44	039-1065-01	MAIN PWB	1

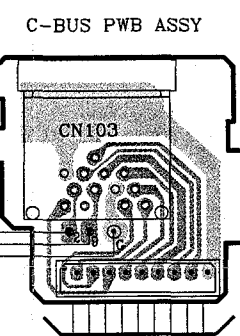
Main PWB section



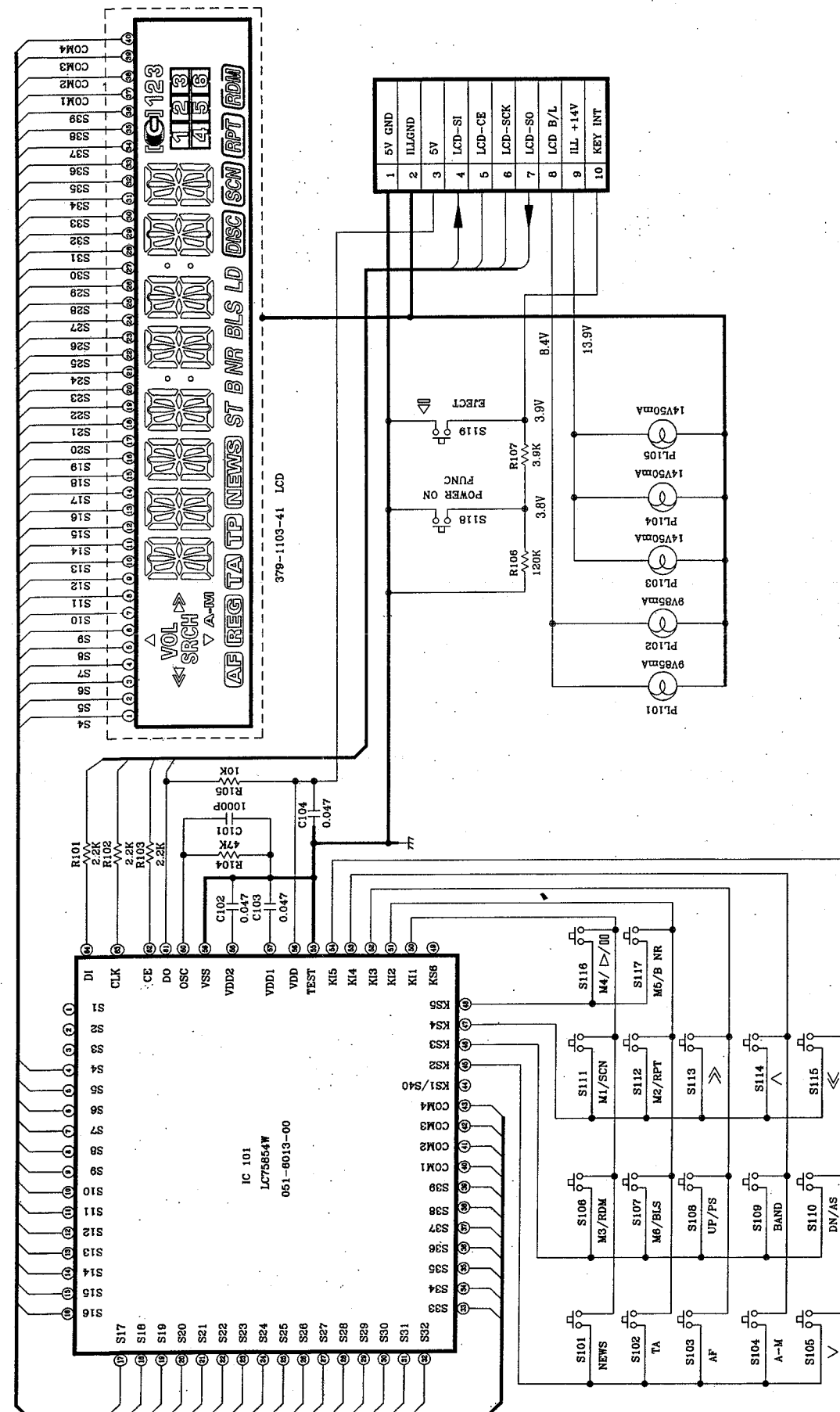
• **ARX5371R(PE-1598E-A)**



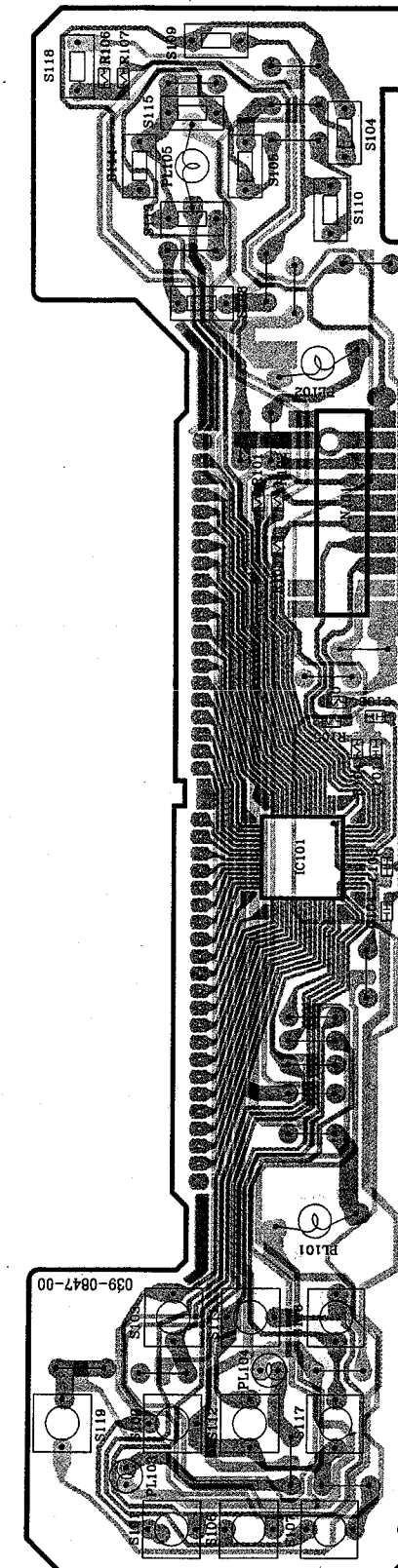
	B	A
1	RR ⊕	
2	RR ⊖	
3	FR ⊕	
4	FR ⊖	B/U(ACC)
5	FL ⊕	AUTO
6	FL ⊖	
7	RL ⊕	ACC(B/U)
8	RL ⊖	GROUND



■ **CIRCUIT DIAGRAM:**
 • **ARX5371R(PE-1598B-A)**
 Switch PWB section



■ **PRINTED WIRING BOARD:**
 • **ARX5371R(PE-1598E-A)**
 Switch PWB section



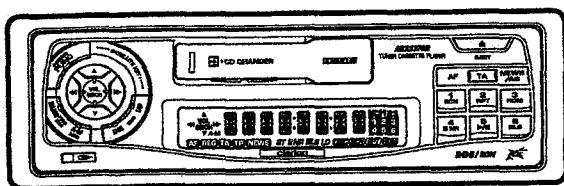
clarion

Clarion Co., Ltd.

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Service Manual



CLAR-00406

RDS-EON/FM-MPX/MW/LW
Radio Cassette Combination
With CD Changer Control

Model **ARX5370R**
(PE-1531E)

SPECIFICATIONS

Radio section

Tuning system: PLL synthesizer tuner
Frequency range:
FM: 87.5MHz to 108MHz
(0.05MHz steps)
MW: 531kHz to 1602kHz
(9kHz steps)
LW: 153kHz to 279kHz
(1kHz steps)

Tape section

Cassette type: Compact audio cassette
Playback system: Auto reversing 4-track, 2-channel
stereo cassette tape playback
(monaural playback also possible)
Frequency range: 20Hz to 20kHz (metal)
Wow & flutter (WRMS):
0.06%
Channel separation (1kHz):
45dB
Signal to noise ratio:
58dB (metal)
67dB (Dolby B NR, metal)

Power amplifier section

Maximum power output:
120W (30W × 4ch)
Effective power output (1% THD):
14W × 4

General

Power supply voltage:
DC14V (10.8V to 15.6V allowable)
negative ground
Power consumption:
Less than 10A
Speaker impedance:
4Ω (4Ω to 8Ω allowable)
Line output (with CD changer 1kHz, 10kΩ):
1.8V
Auto antenna rated current:
0.5A or less
Dimensions (mm): 178(W) × 50(H) × 152(D)
Weight: 1.3kg

- ※ Specification and design are subject to change without notice for further improvement.
- ※ Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- ※ "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

COMPONENTS

PE-1531E-A

Main unit		1
Mounting bracket	300-9677-00	1
Parts bag		
Hook plate	331-0488-00	2
(alternative part	330-8216-01	2)
Cable tie	335-0833-07	1
Spacer	345-3653-01	1
Screw	716-0726-01	1
A-lead	850-6688-50	1
DCP case	335-5331-00	1

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

ADJUSTMENT

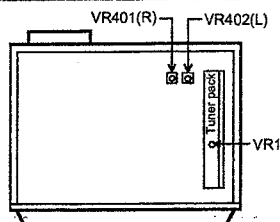
FM section

Item	Procedure	Measuring instrument
S-meter	1. Input the 98.1MHz/30dB μ (400Hz-MOD 30%) signal. 2. Turn on the power switch. and, Press the AF button and CH6 button at the same time. (TEST MODE) 3. Adjust the reading of LCD indicator to [30----00] (3.0V \pm 0.2V) by VR1.	SG

Tape section

Item	Procedure	Measuring instrument
Dolby level	1. Playback a Dolby level test tape (400Hz, 200nWb/m), and connect the milli-volt meter to TP1(R) and TP2(L). 2. Adjust VR401(R) and VR402(L) to obtain an output of 300mV \pm 1dB. (Dolby SW: OFF)	Milli-volt meter Test tape

Adjustment point
(Top side of main unit)



■ TROUBLESHOOTING

Problem	Cause	Measure
Power does not turn on. (or no sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage as the old fuse.
	Connections are improper.	Read the attached "installation/wire connection guide" once again and wire properly.
Sound quality is poor.	Playback head is dirty.	Use a cleaning tape, etc. to clean the head.
No sound while unit can be operated.	Power ANT lead is shorted to the ground.	Turn the unit off, first. Remove all connecting wires from the power ANT lead, and turn the unit on, then re-connect a wire one by one to the power ANT lead. When sound is muted again, check the unit with a wire connected last.

This unit is equipped with a number of self-diagnosis functions to protect the system. If a problem should be occur, the user is warned through various error displays. Eliminate the problem using the procedures shown below.

Error display	Procedure
Er 2	This indicates that a problem has occurred with the CD changer's mechanism (disc cannot be changed or ejected, etc.) →The CD changer mechanism is likely damaged.
Er 3	This indicates that the pickup is out of focus during playback due to scratches on the disc, etc.
Er 6	This indicates that the CD's TOC (table of contents) cannot be read, for example because the selected disc is upside-down.
Er 8	This is displayed if a cassette tape gets stuck during loading or ejecting. →Remove the cause for which the cassette tape got stuck.

If a display other than one of the displays above appears, press the reset button.

■ EXPLANATION OF IC

■ PD178006GC-513-3B9 052-1906-00 System Controller

Outward Form
80 pins, plastic QFP

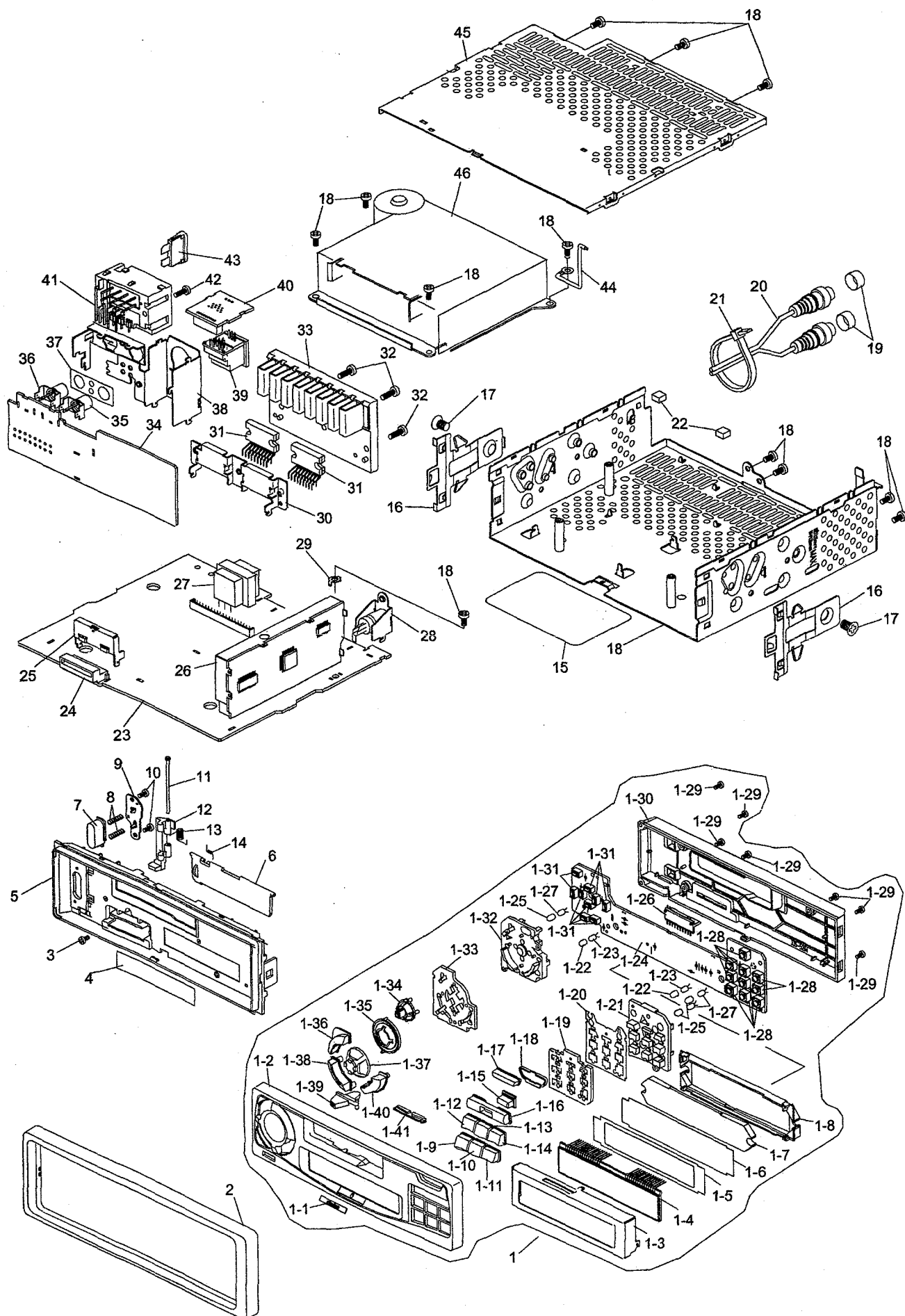
Terminal Description

No.	Symbol	I/O	Function
1	KEY AD	I	FUNC/EJECT/DCP detection terminal
2	RDS S METER	I	RDS S METER detection terminal
3	RDS NOISE 1	I	RDS NOISE detection terminal
4	N.C.	I	Not in use
5	VOL DO	O	Serial data communication line to electronic volume IC
6	VOL CLK	O	
7	LCD SI	I	
8	LCD SO	O	
9	LCD SCK	O	
10	LCD CE	O	Serial data communication line to LCD drive IC
11	N.C.	I	
12	C-BUS SI	I	
13	C-BUS SO	O	
14	C-BUS SCK	O	
15	NOISE DISCHG	O	NOISE OFF
16	PLL CLK	O	PLL CLK
17	PLL DI	O	PLL DI
18	FM SD	I	FM SD input
19	ST IND	I	"LOW" in FM STEREO
20	N.C.	I	Not in use
21	GND	-	GND
22	VDD	-	VDD
23	AM SD	I	AM SD input terminal
24	N.C.	I	Not in use
25			
26			
27	PLL DO	I	PLL DO
28	AM IF CNT	I	Not in use
29	FM IF CNT		
30	VDD	-	VDD
31	FM OSC	I	FM VCO input terminal
32	AM OSC	I	AM VCO input terminal
33	GND	-	GND
34	FM EO	O	Not in use
35	AM EO		
36	VDD	-	VDD
37	PLL CE	O	PLL CE
38	RDS DX/LO	O	Not in use
39	IF REQ	O	"HI" output in SEEK
40	AM DX/LO	O	AM DX/LOCAL output terminal, "HI" in LOCAL
41	RDS MUTE	O	MUTE output terminal for RDS
42	BLINK LED	O	BLINKING LED output terminal
43	SRQ	I	ACTIVE="LOW"
44	ACC CONT	O	ACC ON="HI", ACC OFF="LOW"
45	RDS +B	O	RDS +B
46	FM DX/LO	O	FM DX/LO output terminal, "LOW" in LOCAL
47	REM +S	O	PULL UP, LCD DRV power supply CONTROL terminal
48	REM +B	O	AUDIO system CONTROL power supply terminal
49	N.C.	I	Not in use
50			
51	PHONT INT	I	"HI" while using TEL
52	MECH ON	O	MECHANISM ON SIGNAL

No.	Symbol	I/O	Function
53	P 1	O	MECH MOTOR inverse CONTROL
54	P 2		
55	MECH MOTOR	O	MOTOR ON SIGNAL
56	MTL SW	I	METAL TAPE "HI" (GND)
57	BIT 3	I	Input of cassette tape pack position detection signal
58	BIT 1		
59	BIT 2		
60	REEL PULS	I	Input of tape reel running pulse
61	TAPE IN	I	"HI" in TAPE IN
62	APC SENS	O	"LOW" in PLAY, "HI" in FF/REW
63	APC DET	I	"HI" in intermission between music, "LOW" in music
64	MTL ON	O	"HI" in METAL TAPE (OPEN)
65	FWD/REV	I	"LOW" in FWD, "HI" in REV
66	RDS DATA	I	RDS DATA input terminal
67	RDS CLK	I	RDS CLOCK input terminal
68	B/U DET	I	B/U detection terminal
69	ACC IN	I	CC detection terminal
70	KEY INT	I	TO 1 PIN
71	DOLBY ON	O	DOLBY ON SIGNAL
72	SYS MUTE	O	MUTE output, MUTE ON in "HI"
73	N.C.	I	Not in use
74	CPUREG	-	VDD
75	GND	-	GND
76	XOUT	O	Connected to quarts
77	XIN		
78	OSC REG	-	VDD
79	VDD		
80	RESET		

EXPLODED VIEW

Main section



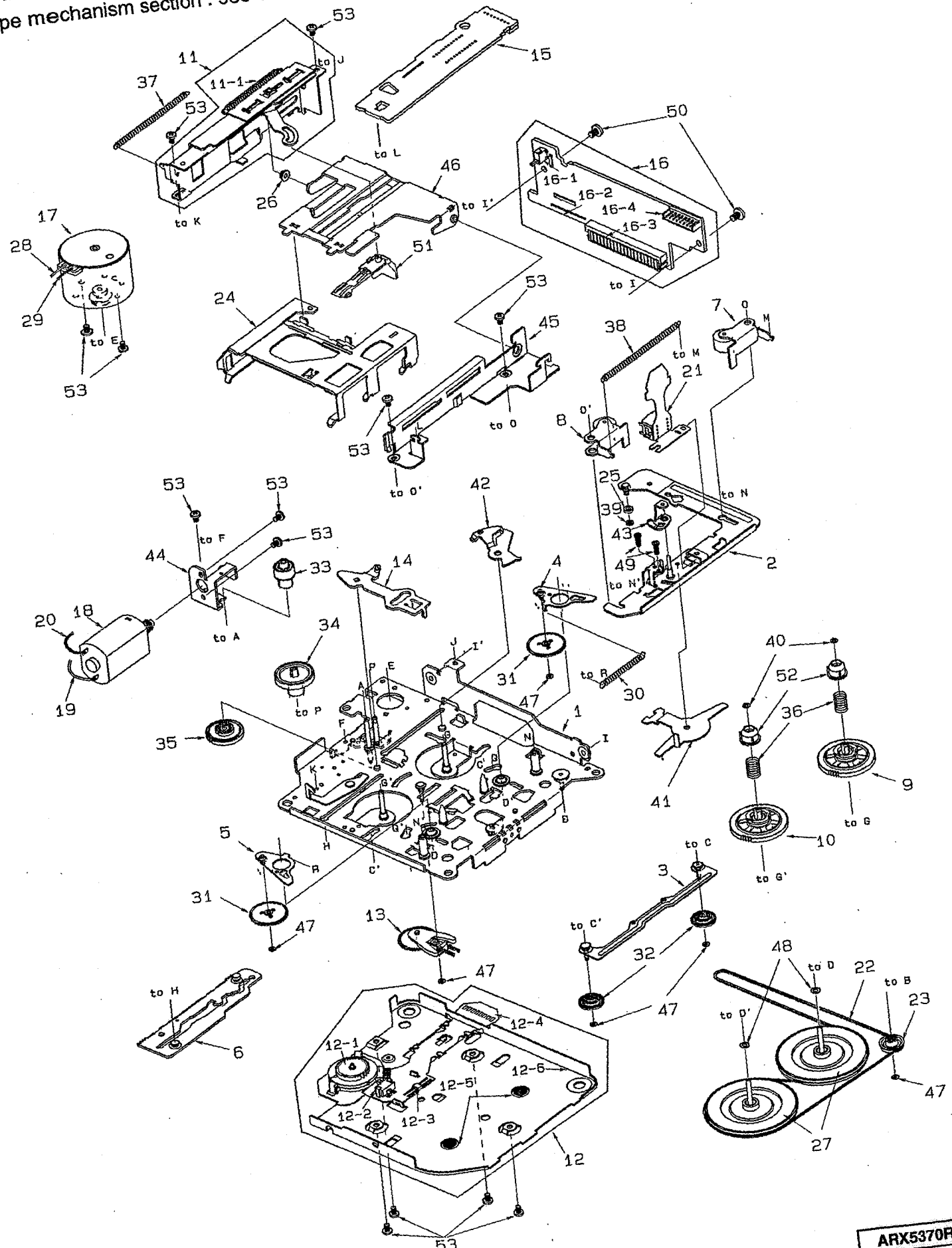
■ PARTS LIST

Main section

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	940-1790A	DCP ASS'Y	1	4	291-0067-00	STICKER	1
1-1	378-0134-00	BADGE	1	5	370-5653-00	INNER ESCUTCHEON	1
1-2	370-5643-00	ESCUTCHEON	1	6	320-0526-26	DUSTPROOF COVER	1
1-3	331-1999-00	LCD COVER	1	7	382-4078-00	BUTTON (PUSH-OUT)	1
1-4	379-1074-41	INDICATION	1	8	750-3173-00	SPRING (PUSH-OUT)	2
1-5	347-5366-00	FILM	1	9	331-0588-20	HOOK PLATE	1
1-6	347-5365-00	FILM	1	10	716-0778-00	WAVE SCREW	2
1-7	335-5308-00	LCD ILLUMINATION PLATE	1	11	341-1627-00	SHAFT	1
1-8	335-5309-00	LCD HOLDER	1	12	335-5312-00	HOOK	1
1-9	382-4421-23	BUTTON (4/B NR)	1	13	750-3219-00	SPRING (HOOK)	1
1-10	382-4422-21	BUTTON (5/>II)	1	14	750-3217-00	SPRING (DOOR)	1
1-11	382-4423-23	BUTTON (6/BLS)	1	15	286-8674-00	SET PLATE	1
1-12	382-4418-21	BUTTON (1/SCN)	1	16	750-3137-00	SPRING	2
1-13	382-4419-21	BUTTON (2/RPT)	1	17	714-5008-41	MACHINE SCREW (M5X8)	2
1-14	382-4420-21	BUTTON (3/RDM)	1	18	714-3005-80	MACHINE SCREW (M3X5)	12
1-15	382-4413-20	BUTTON (TA)	1	19	345-7584-00	SLEEVE	2
1-16	382-4414-20	BUTTON (AF/NEWS)	1	20	855-8000-13	RCA LEAD	1
1-17	382-4468-00	BUTTON (EJECT)	1	21	335-0833-07	CABLE TIE	1
1-18	335-5301-00	BUTTON HOLDER	1	22	345-7560-00	RUBBER PART	2
1-19	345-7818-00	SPONGE (L)	1	23	039-0845-00	MAIN PWB	1
1-20	347-5402-00	SHADE (R)	1	24	074-1112-00	DCP CONNECTOR	1
1-21	335-5307-00	ILLUMINATION PLATE (L)	1	25	331-0606-00	CONNECTOR BRACKET	1
1-22	345-4441-81	LAMP CAP (YELLOW)	2	26	880-2080A	TUNER	1
1-23	017-0441-00	PILOT LAMP (9V 85mA)	2	27	009-9006-50	CHOKE	1
1-24	039-0847-00	SW PWB	1	28	092-9000-01	ANTENNA RECEPTACLE	1
1-25	345-4441-37	LAMP CAP (BLUE)	3	29	331-0643-00	EARTH PLATE	1
1-26	076-0522-00	DCP CONNECTOR	1	30	331-0613-00	IC HOLDER	1
1-27	017-0444-00	PILOT LAMP (14V 50mA)	3	31	051-2009-00	POWER IC (TDA8561Q)	2
1-28	013-6002-50	TACT SWITCH	10	32	714-3010-80	MACHINE SCREW (M3X10)	3
1-29	716-1721-00	P-TIGHT SCREW	7	33	313-1616-00	HEAT SINK	1
1-30	335-5294-00	REAR COVER	1	34	039-0841-00	CONNECTOR PWB	1
1-31	013-3812-11	TACT SWITCH	9	35	075-9003-00	RCA JACK (WHITE)	1
1-32	335-5304-00	ILLUMINATION PLATE (R)	1	36	075-9004-00	RCA JACK (RED)	1
1-33	345-7815-00	SPONGE (R)	1	37	347-5100-00	SPACER (RCA)	1
1-34	335-5298-00	JOG ARM	1	38	331-1856-20	CONNECTOR HOLDER	1
1-35	335-5297-00	JOG PLATE	1	39	074-1022-01	CONNECTOR (13P)	1
1-36	382-4393-20	BUTTON (FUNC/POWER)	1	40	039-0428-00	C-BUS PWB	1
1-37	380-5394-20	BUTTON (VOL)	1	41	074-1115-10	ISO CONNECTOR	1
1-38	382-4394-22	BUTTON (BAND/A-M)	1	42	714-2610-10	MACHINE SCREW (M2.6X10)	1
1-39	382-4470-00	BUTTON (RELEASE)	1	43	060-0057-56	AUTO FUSE (10A)	1
1-40	382-4396-21	BUTTON (UP/DOWN)	1	44	850-6688-50	A-LEAD	1
1-41	335-4874-00	ILLUMINATION PLATE	1	45	310-1571-00	UPPER CASE	1
2	370-5656-02	OUTER ESCUTCHEON	1	46	930-0738-81	TAPE MECHANISM	1
3	714-2004-19	MACHINE SCREW (M2X4)	1				

EXPLODED VIEW

Tape mechanism section : 930-0738-81



ARX5370R

■ PARTS LIST

Tape mechanism section : 930-0738-81

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	960-4294-21	DECK PLATE ASS'Y	1	22	602-0118-00	BELT	1
2	960-4261-05	HEAD PLATE ASS'Y	1	23	604-0046-00	TENSION PULLEY	1
3	960-4262-20	FF/REW-P-ASS'Y	1	24	606-0093-06	PACK GUIDE	1
4	960-4263-03	IDOLER-P-ASS'Y F	1	25	610-0342-01	HEAD-P-ROLLER	1
5	960-4264-03	IDOLER-P-ASS'Y R	1	26	610-0343-00	GUIDE-A-ROLLER	1
6	960-4266-20	MODE PLATE ASS'Y	1	27	611-0091-03	FLYWHEEL	2
7	960-4269-05	ROLLER ASS'Y F	1	28	802-4909-60	VINYL COAT WIRE(RED)	1
8	960-4270-05	ROLLER ASS'Y R	1	29	800-4909-60	VINYL COAT WIRE(BLK)	1
9	960-4348-02	REEL ASS'Y F	1	30	750-3017-02	IDOLER-P-SPRING	1
10	960-4349-02	REEL ASS'Y R	1	31	613-0285-02	IDOLER GEAR	2
11	960-4389-03	EJECT SUB ASS'Y	1	32	613-0286-02	FF/REW GEAR	2
11-1	750-3020-01	SW-PLATE SPRING	1	33	613-0288-01	HELICAL GEAR	1
12	960-4338-07	BOTTOM SUB ASS'Y	1	34	613-0289-01	GEAR A	1
12-1	013-3951-11	SWITCH	1	35	613-0337-00	POWER GEAR	1
12-2	013-3953-01	SWITCH	1	36	750-2949-00	SLIDE SPRING	2
12-3	051-1776-00	IC	1	37	750-2947-04	EJECT-P-SPRING	1
12-4	099-9926-01	FLEXIBLE PWB	1	38	750-2946-02	PINCH SPRING	1
12-5	746-0767-00	WASHER	2	39	746-0762-00	WASHER	1
12-6	960-4295-02	BOTTOM PLATE ASS'Y	1	40	746-0761-00	WASHER(ϕ 1.6)	2
13	960-4282-06	DETECT SUB ASS'Y	1	41	630-2597-01	CHANGE LINK	1
14	960-4301-02	PLAY LINK ASS'Y	1	42	630-2598-05	EJECT LINK	1
15	039-0053-00	SIDE PWB	1	43	630-2600-01	ADJUST LINK	1
15-1	074-0881-08	OUTLET SOCKET(8P)	1	44	630-2601-02	MOTOR PLATE	1
16	990-0709-01	REAR PWB ASS'Y	1	45	630-2626-04	PWB FRAME	1
16-1	013-3906-00	SWITCH	1	46	630-2642-01	GUIDE ARM	1
16-2	039-0368-00	REAR PWB	1	47	746-0724-00	WASHER(ϕ 1.1)	6
16-3	074-0978-20	OUTLET SOCKET	1	48	746-0624-00	WASHER(ϕ 2.1)	2
16-4	076-0353-08	PLUG	1	49	716-0833-10	AZIMUTH SCREW	2
17	SMA-153-100	MAIN MOTOR ASS'Y	1	50	716-0761-01	PWB SCREW	2
18	SMA-131-100	POWER MOTOR ASS'Y	1	51	631-1992-02	PACK STOPPER	1
19	816-2349-00	VINYL COAT WIRE(WHT)	1	52	631-1993-01	SLIDE BUSH	2
20	816-2304-00	VINYL COAT WIRE(BLU)	1	53	716-0484-00	SCREW(M2X2.5)	13
21	011-0307-28	HEAD	1				

■ ELECTRICAL PARTS LIST

Tape mechanism section

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 1	175-3311-00	330pF CH	C 14	183-2263-31	16V22 μ F	R 9	117-1531-10	1/10W 15k Ω
C 2	175-3311-00	330pF CH	C 15	183-4753-51	35V4.7 μ F	R 10	117-1531-10	1/10W 15k Ω
C 3	175-3311-00	330pF CH	C 16	183-4753-51	35V4.7 μ F	R 11	117-1131-10	1/10W 11k Ω
C 4	175-3311-00	330pF CH	IC 1	051-1546-10	BA3430S	R 12	117-3341-10	1/10W 330k Ω
C 5	183-4763-11	6.3V47 μ F	IC 2	051-1776-00	NJL5801K	R 13	117-1811-10	1/10W 180 Ω
C 6	042-0552-02	10V68 μ F	R 1	111-1241-91	1/4WS 120k Ω	R 14	117-8211-10	1/10W 820 Ω
C 7	042-0552-02	10V68 μ F	R 2	111-1241-91	1/4WS 120k Ω	R 15	116-2231-10	1/8W 22k Ω
C 8	173-1231-10	0.012 μ F	R 3	111-1241-91	1/4WS 120k Ω	R 16	117-1031-10	1/10W 10k Ω
C 9	173-1231-10	0.012 μ F	R 4	111-1241-91	1/4WS 120k Ω	R 17	117-1031-10	1/10W 10k Ω
C 10	183-4753-51	35V4.7 μ F	R 5	116-1011-10	1/8W 100 Ω	R 18	111-5611-91	1/4WS 560 Ω
C 11	183-1043-61	50V0.1 μ F	R 6	116-1011-10	1/8W 100 Ω	SW 1	013-3906-00	3PPB51
C 12	175-5611-00	560pF CH	R 7	117-3341-10	1/10W 330k Ω	SW 2	013-3953-01	
C 13	183-4743-61	50V0.47 μ F	R 8	117-1131-10	1/10W 11k Ω	SW 3	013-3951-10	

SW PWB section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 101	178-1822-05	1800pF	R 103	117-2221-10	1/10W 2.2kΩ	S 109	013-6002-50	
C 102	178-4735-06	0.047 μF	R 104	117-6831-10	1/10W 68kΩ	S 110	013-3812-11	
C 103	178-4735-06	0.047 μF	R 105	117-1031-10	1/10W 10kΩ	S 111	013-3812-11	
C 104	178-4735-06	0.047 μF	R 106	117-1241-10	1/10W 120kΩ	S 112	013-3812-11	
CN 101	076-0522-00		R 107	117-3921-10	1/10W 3.9kΩ	S 113	013-6002-50	
IC 101	051-6013-00	LC75854W	S 101	013-6002-50		S 114	013-6002-50	
PL 101	017-0441-00	9V 85mA	S 102	013-6002-50		S 115	013-3812-11	
PL 102	017-0441-00	9V 85mA	S 103	013-3812-11		S 116	013-6002-50	
PL 103	017-0444-00	14V 50mA	S 104	013-6002-50		S 117	013-3812-11	
PL 104	017-0444-00	14V 50mA	S 105	013-6002-50		S 118	013-3812-11	
PL 105	017-0444-00	14V 50mA	S 106	013-3812-11		S 119	013-6002-50	
R 101	117-2221-10	1/10W 2.2kΩ	S 107	013-3812-11				
R 102	117-2221-10	1/10W 2.2kΩ	S 108	013-6002-50				

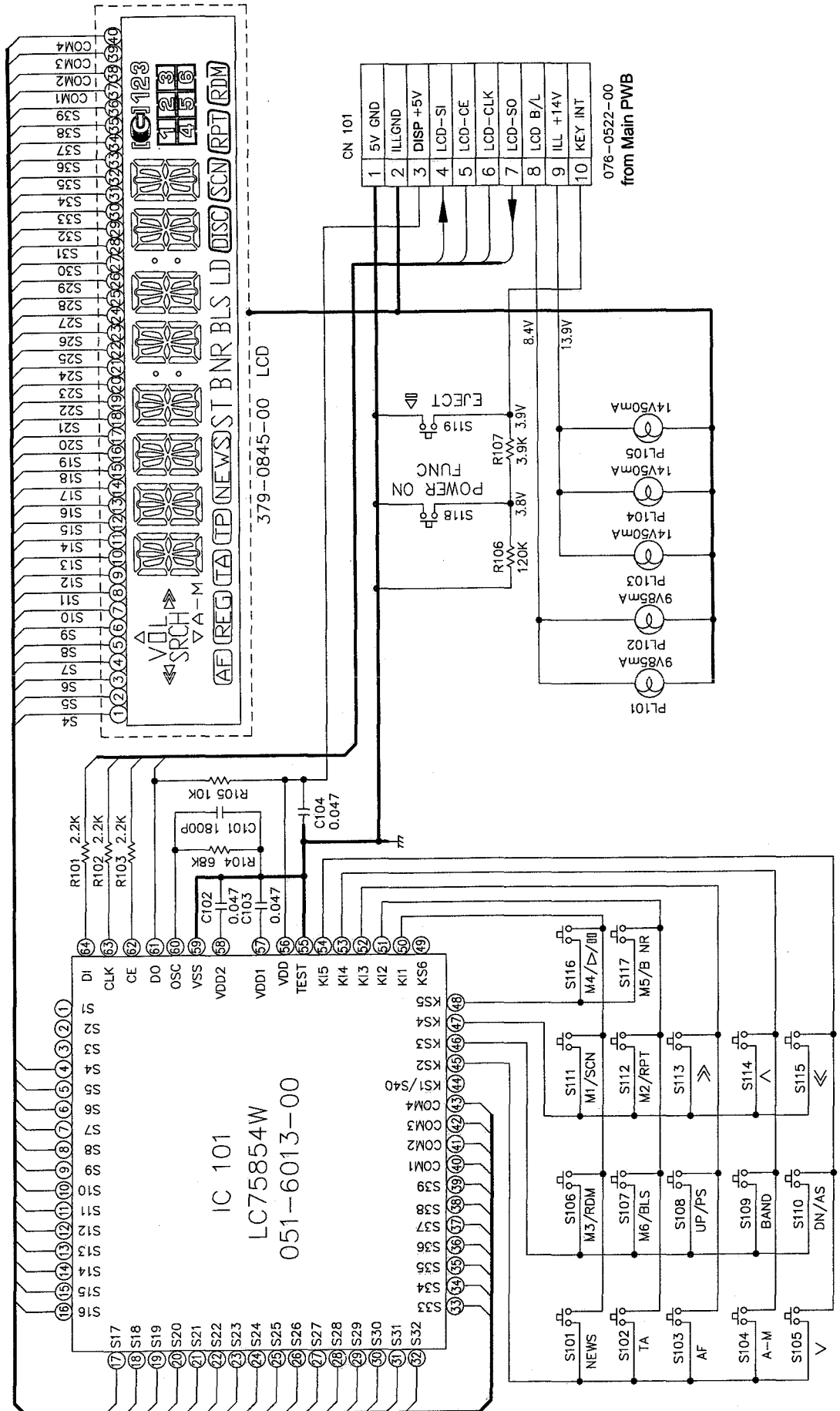
Main PWB section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 101	174-1800-13	18pF	C 402	182-2253-63	50V2.2 μF	C 801	173-1042-10	0.1 μF
C 102	178-1032-05	0.01 μF	C 403	042-9003-00	10V100 μF	C 802	042-9002-00	50V0.47 μF
C 103	178-1032-05	0.01 μF	C 404	182-1053-63	50V1 μF	C 803	042-9002-00	50V0.47 μF
C 104	184-1073-22	10V100 μF	C 405	178-1022-05	1000pF	C 804	042-9002-00	50V0.47 μF
C 105	178-1022-05	1000pF	C 406	182-1063-33	16V10 μF	C 805	042-9002-00	50V0.47 μF
C 106	178-1022-05	1000pF	C 407	182-2243-63	50V0.22 μF	C 806	042-0447-00	16V2200 μF
C 106	180-1053-63	50V1 μF	C 408	182-2243-63	50V0.22 μF	C 807	183-1063-31	16V10 μF
C 107	178-2732-05	0.027 μF	C 409	182-2253-63	50V2.2 μF	C 808	183-1063-31	16V10 μF
C 108	178-2732-05	0.027 μF	C 410	182-2253-63	50V2.2 μF	C 809	183-1063-31	16V10 μF
C 109	178-1522-05	1500pF	C 501	178-1032-05	0.01 μF	C 810	183-1063-31	16V10 μF
C 110	178-1032-05	0.01 μF	C 502	176-2201-00	22pF CH	C 811	178-1022-05	1000pF
C 111	178-6822-05	6800pF	C 503	178-1032-05	0.01 μF	C 812	178-2232-05	0.022 μF
C 112	178-1032-05	0.01 μF	C 504	182-4763-23	10V47 μF	CN 101	074-1112-00	
C 113	178-1032-05	0.01 μF	C 505	177-4732-05	0.047 μF	CN 102	075-9003-00	
C 114	184-2273-22	10V220 μF	C 506	178-1032-05	0.01 μF	CN 103	075-9004-00	
C 115	178-1222-05	1200pF	C 507	042-9003-00	10V100 μF	CN 104	074-1112-00	
C 116	178-8222-05	8200pF	C 508	178-1032-05	0.01 μF	CN 105	076-9000-09	
C 117	183-3343-61	50V0.33 μF	C 509	178-4732-05	0.047 μF	CN 106	076-9000-03	
C 118	178-1032-05	0.01 μF	C 601	183-2253-61	50V2.2 μF	CN 107	076-0433-20	
C 201	176-3311-00	330pF	C 602	184-1073-22	10V100 μF	CN 108	074-1022-01	
C 202	176-3311-00	330pF	C 603	171-1032-06	0.01 μFKY5R	D 101	001-0376-69	MTZ18JB
C 203	176-8201-00	82pF CH	C 604	180-1063-53	16V10 μF	D 102	001-0330-00	1SS119
C 204	176-4701-00	47pF CH	C 605	182-4763-23	10V47 μF	D 103	001-0330-00	1SS119
C 205	178-1042-05	0.1 μF	C 606	182-1063-33	16V10 μF	D 104	001-0376-69	MTZ18JB
C 206	183-2253-61	50V2.2 μF	C 607	171-1032-06	0.01 μFKY5R	D 201	001-0330-00	1SS119
C 207	183-1063-31	16V10 μF	C 608	178-1032-05	0.01 μF	D 202	001-0330-00	1SS119
C 208	176-5611-00	560pF	C 610	171-1032-06	0.01 μFKY5R	D 301	001-0376-45	MTZJ8.2C
C 209	176-5611-00	560pF	C 701	182-1063-33	16V10 μF	D 302	001-0330-00	1SS119
C 210	176-5611-00	560pF	C 702	183-2253-61	50V2.2 μF	D 501	001-0330-00	1SS119
C 211	178-2232-05	0.022 μF	C 703	178-4732-05	0.047 μF	D 502	001-7800-00	SDL-3N2P-L
C 212	178-2232-05	0.022 μF	C 704	183-2253-61	50V2.2 μF	D 503	001-0330-00	1SS119
C 213	178-1032-05	0.01 μF	C 705	182-1063-33	16V10 μF	D 504	001-0330-00	1SS119
C 214	177-3312-05	330pF	C 706	042-9003-00	10V100 μF	D 601	001-0376-33	MTZJ5.6C
C 215	178-1042-05	0.1 μF	C 707	174-5600-13	56pF	D 602	001-0330-00	1SS119
C 216	182-4743-63	50V0.47 μF	C 708	176-1511-00	150pF CH	D 603	001-0330-00	1SS119
C 217	176-2701-00	27pF	C 709	182-4753-63	50V4.7 μF	D 604	001-0376-48	MTZJ9.1C
C 218	176-2701-00	27pF	C 710	178-8232-05	0.082 μF	D 605	001-0376-48	MTZJ9.1C
C 219	183-2253-61	50V2.2 μF	C 711	182-2253-63	50V2.2 μF	D 606	001-0376-36	MTZJ6.2C
C 220	176-1011-00	100pF CH	C 712	182-2263-33	16V22 μF	D 607	001-0330-00	1SS119
C 221	176-1011-00	100pF CH	C 713	178-5622-05	5600pF	D 608	001-0376-45	MTZJ8.2C
C 222	176-1011-00	100pF CH	C 714	178-5632-05	0.056 μF	D 609	001-0330-00	1SS119
C 223	176-1011-00	100pF CH	C 715	178-5622-05	5600pF	D 610	001-0330-00	1SS119
C 224	178-1032-05	0.01 μF	C 716	182-1063-33	16V10 μF	D 611	001-0466-00	S5688B
C 225	183-4763-11	6.3V47 μF	C 717	174-5600-13	56pF	D 612	001-0330-00	1SS119
C 301	177-1042-05	0.1 μF	C 718	176-1511-00	150pF CH	D 613	001-0330-00	1SS119
C 302	177-1022-05	1000pF	C 719	182-4753-63	50V4.7 μF	D 701	001-0376-23	MTZ4.3JB
C 303	182-1073-33	16V100 μF	C 720	178-8232-05	0.082 μF	D 801	001-0376-29	MTZJ5.1B
C 304	177-1022-05	1000pF	C 721	182-2253-63	50V2.2 μF	D 802	001-0330-00	1SS119
C 305	177-1022-05	1000pF	C 722	182-2263-33	16V22 μF	D 803	001-0188-01	1S1885A
C 306	178-1022-05	1000pF	C 723	178-5622-05	5600pF	IC 201	051-1819-00	SAA6579T
C 307	178-1022-05	1000pF	C 724	178-5632-05	0.056 μF	IC 202	051-0350-55	NJM4558M
C 308	178-1022-05	1000pF	C 725	178-5622-05	5600pF	IC 203	051-6201-00	LC72146M
C 309	178-1022-05	1000pF	C 726	182-1063-33	16V10 μF	IC 301	051-1014-10	TA7291S
C 401	182-2253-63	50V2.2 μF	C 727	182-4763-23	10V47 μF	IC 401	051-1349-10	HA12134AF

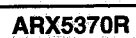
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC 501	052-1906-00	μ PD178006GC-513-3B9	R 114	111-2221-91	1/4WS 2.2k Ω	R 605	111-1021-91	1/4WS 1k Ω
IC 502	051-0160-01	HD74LS07P	R 115	116-2221-10	1/8W 2.2k Ω	R 606	111-1091-91	1/4WS 1 Ω
IC 701	051-5008-00	M62419FP	R 116	117-1231-10	1/10W 12k Ω	R 607	111-1091-91	1/4WS 1 Ω
IC 801	051-2009-00	TDA8561Q	R 117	111-2711-91	1/4WS 270 Ω	R 608	111-4711-81	1/2WS 470 Ω
IC 802	051-2009-00	TDA8561Q	R 118	111-3311-91	1/4WS 330 Ω	R 609	111-1091-91	1/4WS 1 Ω
L 101	010-9000-05	5.6 μ H	R 201	117-1031-10	1/10W 10k Ω	R 610	111-1091-91	1/4WS 1 Ω
L 102	010-9000-05	5.6 μ H	R 202	117-1031-10	1/10W 10k Ω	R 611	111-4711-81	1/2WS 470 Ω
L 201	010-9000-01	120 μ H	R 203	117-2221-10	1/10W 2.2k Ω	R 612	117-1041-10	1/10W 100k Ω
L 501	010-9000-01	120 μ H	R 204	117-3331-10	1/10W 33k Ω	R 613	117-1041-10	1/10W 100k Ω
L 502	010-9000-01	120 μ H	R 205	117-3321-10	1/10W 3.3k Ω	R 614	111-5611-81	1/2WS 560 Ω
L 601	010-9000-01	120 μ H	R 206	117-2231-10	1/10W 22k Ω	R 615	111-1031-91	1/4WS 10k Ω
L 801	009-9006-50		R 207	117-1031-10	1/10W 10k Ω	R 616	117-1031-10	1/10W 10k Ω
Q 101	108-0669-00	2SK669	R 208	117-1231-10	1/10W 12k Ω	R 617	111-1591-91	1/4WS 1.5 Ω
Q 102	100-1548-00	2SA1548	R 209	117-3331-10	1/10W 33k Ω	R 618	111-1591-91	1/4WS 1.5 Ω
Q 103	100-1548-00	2SA1548	R 210	117-1021-10	1/10W 1k Ω	R 619	111-1591-91	1/4WS 1.5 Ω
Q 201	125-0003-02	RN2202	R 211	117-2241-10	1/10W 220k Ω	R 620	111-1591-91	1/4WS 1.5 Ω
Q 202	103-1450-00	2SD1450	R 212	117-1041-10	1/10W 100k Ω	R 621	117-1031-10	1/10W 10k Ω
Q 203	125-0003-02	RN2202	R 213	117-2221-10	1/10W 2.2k Ω	R 622	111-2221-91	1/4WS 2.2k Ω
Q 204	125-2003-02	RN1202	R 214	117-1021-10	1/10W 1k Ω	R 623	111-1031-91	1/4WS 10k Ω
Q 205	125-2003-02	RN1202	R 215	117-1021-10	1/10W 1k Ω	R 624	111-1221-91	1/4WS 1.2k Ω
Q 301	101-1243-00	2SB1243	R 216	117-1021-10	1/10W 1k Ω	R 625	117-4721-10	1/10W 4.7k Ω
Q 302	125-2003-06	RN1206	R 217	117-1021-10	1/10W 1k Ω	R 626	116-2231-10	1/8W 22k Ω
Q 303	101-1243-00	2SB1243	R 218	117-1031-10	1/10W 10k Ω	R 627	111-5611-81	1/2WS 560 Ω
Q 304	125-2003-06	RN1206	R 219	117-1031-10	1/10W 10k Ω	R 628	111-1031-91	1/4WS 10k Ω
Q 501	125-0003-02	RN2202	R 220	117-1031-10	1/10W 10k Ω	R 629	117-1531-10	1/10W 15k Ω
Q 502	102-2458-51	2SC2458GR,BL	R 301	111-6811-81	1/2WS 680 Ω	R 630	111-4711-81	1/2WS 470 Ω
Q 503	102-2458-51	2SC2458GR,BL	R 302	111-1031-91	1/4WS 10k Ω	R 631	111-2231-91	1/4WS 22k Ω
Q 504	125-2003-02	RN1202	R 303	114-2291-11	1W 2.2 Ω	R 632	111-2231-91	1/4WS 22k Ω
Q 505	125-2003-02	RN1202	R 304	111-2221-91	1/4WS 2.2k Ω	R 633	117-1041-10	1/10W 100k Ω
Q 601	101-1237-00	2SB1237	R 305	111-6811-81	1/2WS 680 Ω	R 701	117-4731-10	1/10W 47k Ω
Q 602	102-1846-50	2SC1846R,S	R 306	111-1031-91	1/4WS 10k Ω	R 702	117-6831-10	1/10W 68k Ω
Q 603	103-1858-00	2SD1858	R 307	117-1031-10	1/10W 10k Ω	R 703	117-6821-10	1/10W 6.8k Ω
Q 604	103-1858-00	2SD1858	R 401	117-1831-10	1/10W 18k Ω	R 704	117-1231-10	1/10W 12k Ω
Q 605	103-1858-00	2SD1858	R 402	116-2231-10	1/8W 22k Ω	R 705	117-1531-10	1/10W 15k Ω
Q 606	103-1858-00	2SD1858	R 501	111-2221-91	1/4WS 2.2k Ω	R 706	117-2431-10	1/10W 24k Ω
Q 607	125-0003-02	RN2202	R 502	111-2221-91	1/4WS 2.2k Ω	R 707	117-6821-10	1/10W 6.8k Ω
Q 608	102-2458-51	2SC2458GR,BL	R 503	117-4721-10	1/10W 4.7k Ω	R 708	117-4731-10	1/10W 47k Ω
Q 609	101-1243-00	2SB1243	R 504	117-5621-10	1/10W 5.6k Ω	R 709	117-6831-10	1/10W 68k Ω
Q 610	125-2003-02	RN1202	R 505	117-1031-10	1/10W 10k Ω	R 710	117-6821-10	1/10W 6.8k Ω
Q 611	100-1048-00	2SA1048	R 506	117-1031-10	1/10W 10k Ω	R 711	117-1231-10	1/10W 12k Ω
Q 612	101-1237-00	2SB1237	R 507	117-1021-10	1/10W 1k Ω	R 712	117-1531-10	1/10W 15k Ω
Q 613	125-2003-02	RN1202	R 508	117-1031-10	1/10W 10k Ω	R 713	117-2431-10	1/10W 24k Ω
Q 614	125-2003-02	RN1202	R 509	117-1031-10	1/10W 10k Ω	R 714	117-6821-10	1/10W 6.8k Ω
Q 615	125-2003-02	RN1202	R 510	117-1031-10	1/10W 10k Ω	R 715	111-3311-91	1/4WS 330 Ω
Q 616	101-1243-00	2SB1243	R 511	117-1031-10	1/10W 10k Ω	R 801	117-3321-10	1/10W 3.3k Ω
Q 617	125-2003-02	RN1202	R 512	111-1031-91	1/4WS 10k Ω	R 802	117-4721-10	1/10W 4.7k Ω
Q 618	125-2003-02	RN1202	R 513	117-1031-10	1/10W 10k Ω	R 803	117-4721-10	1/10W 4.7k Ω
Q 619	125-0003-02	RN2202	R 514	117-1031-10	1/10W 10k Ω	R 804	117-4721-10	1/10W 4.7k Ω
Q 801	103-1450-00	2SD1450	R 515	117-1031-10	1/10W 10k Ω	R 805	117-4721-10	1/10W 4.7k Ω
Q 802	103-1450-00	2SD1450	R 516	117-4731-10	1/10W 47k Ω	R 806	117-3311-10	1/10W 330 Ω
Q 803	103-1450-00	2SD1450	R 517	117-2231-10	1/10W 22k Ω	R 807	117-1031-10	1/10W 10k Ω
Q 804	103-1450-00	2SD1450	R 518	117-4731-10	1/10W 47k Ω	R 808	117-3311-10	1/10W 330 Ω
Q 805	125-2003-02	RN1202	R 519	117-2231-10	1/10W 22k Ω	R 809	117-1031-10	1/10W 10k Ω
Q 806	125-0003-02	RN2202	R 520	117-1031-10	1/10W 10k Ω	R 810	117-5621-10	1/10W 5.6k Ω
R 101	117-5631-10	1/10W 56k Ω	R 521	117-1021-10	1/10W 1k Ω	R 811	117-5621-10	1/10W 5.6k Ω
R 102	117-1831-10	1/10W 18k Ω	R 522	116-1021-10	1/8W 1k Ω	R 812	117-1031-10	1/10W 10k Ω
R 103	117-1021-10	1/10W 1k Ω	R 523	117-1021-10	1/10W 1k Ω	R 813	117-1031-10	1/10W 10k Ω
R 104	117-5631-10	1/10W 56k Ω	R 524	117-1021-10	1/10W 1k Ω	R 814	117-3311-10	1/10W 330 Ω
R 105	117-1231-10	1/10W 12k Ω	R 525	117-1021-10	1/10W 1k Ω	R 815	117-3311-10	1/10W 330 Ω
R 106	117-1021-10	1/10W 1k Ω	R 526	117-1021-10	1/10W 1k Ω	R 816	117-5621-10	1/10W 5.6k Ω
R 107	117-2231-10	1/10W 22k Ω	R 527	117-1021-10	1/10W 1k Ω	R 817	117-5621-10	1/10W 5.6k Ω
R 108	117-4721-10	1/10W 4.7k Ω	R 528	111-1001-91	1/4WS 10 Ω	VR 401	012-9000-18	10k Ω
R 109	117-2211-10	1/10W 220 Ω	R 529	117-1021-10	1/10W 1k Ω	VR 402	012-9000-18	10k Ω
R 110	117-1031-10	1/10W 10k Ω	R 530	111-4711-81	1/2WS 470 Ω	X 201	061-9001-50	4.332MHz
R 111	116-2221-10	1/8W 2.2k Ω	R 601	111-1021-91	1/4WS 1k Ω	X 202	061-9002-50	7.2MHz
R 112	111-1031-91	1/4WS 10k Ω	R 602	111-1031-91	1/4WS 10k Ω	X 501	060-1023-00	CST4.5MGW
R 113	111-1031-91	1/4WS 10k Ω	R 603	117-2231-10	1/10W 22k Ω			
			R 604	117-1231-10	1/10W 12k Ω			

CIRCUIT DIAGRAM

SW PWB section

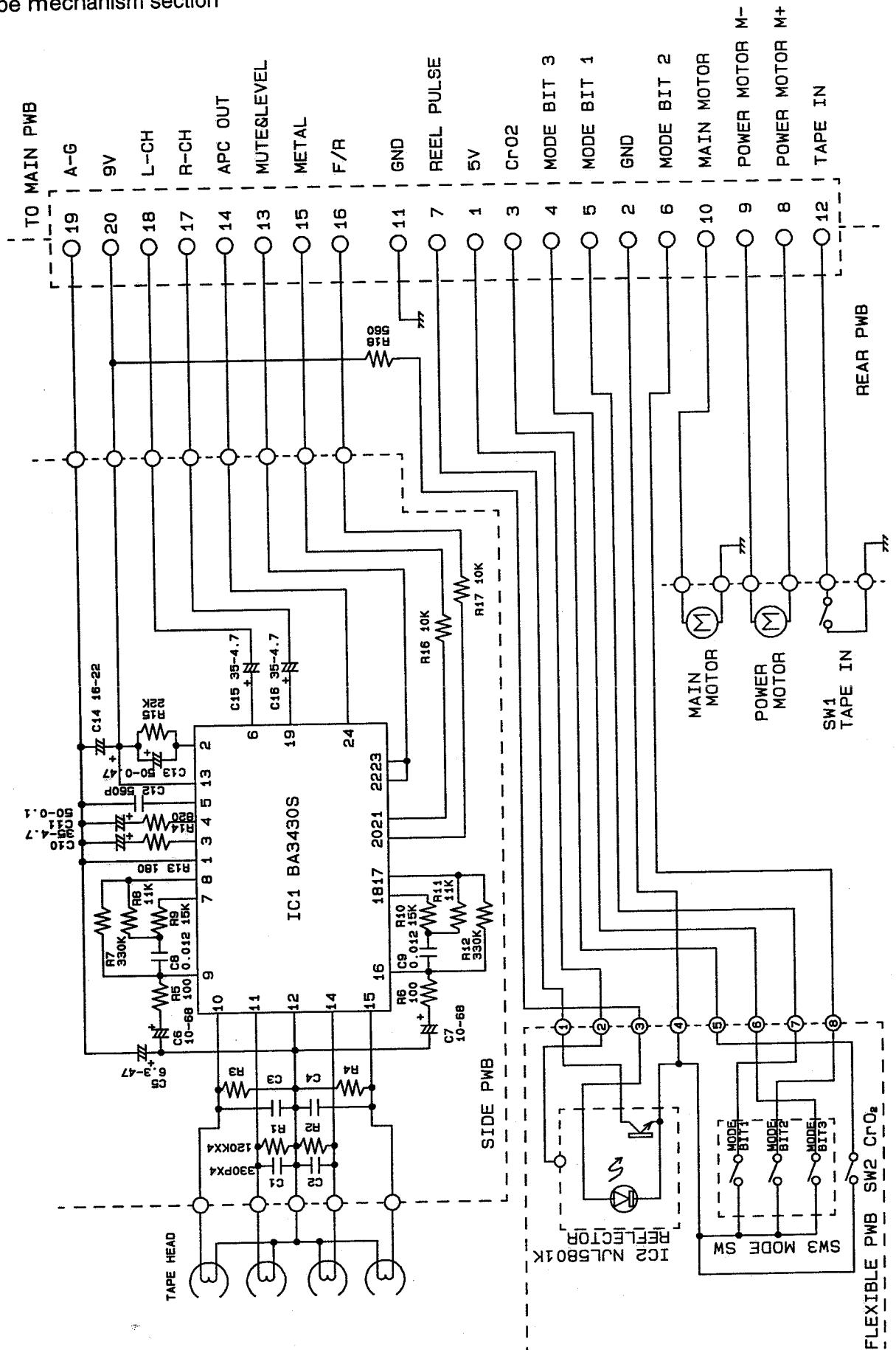


SW PWB section



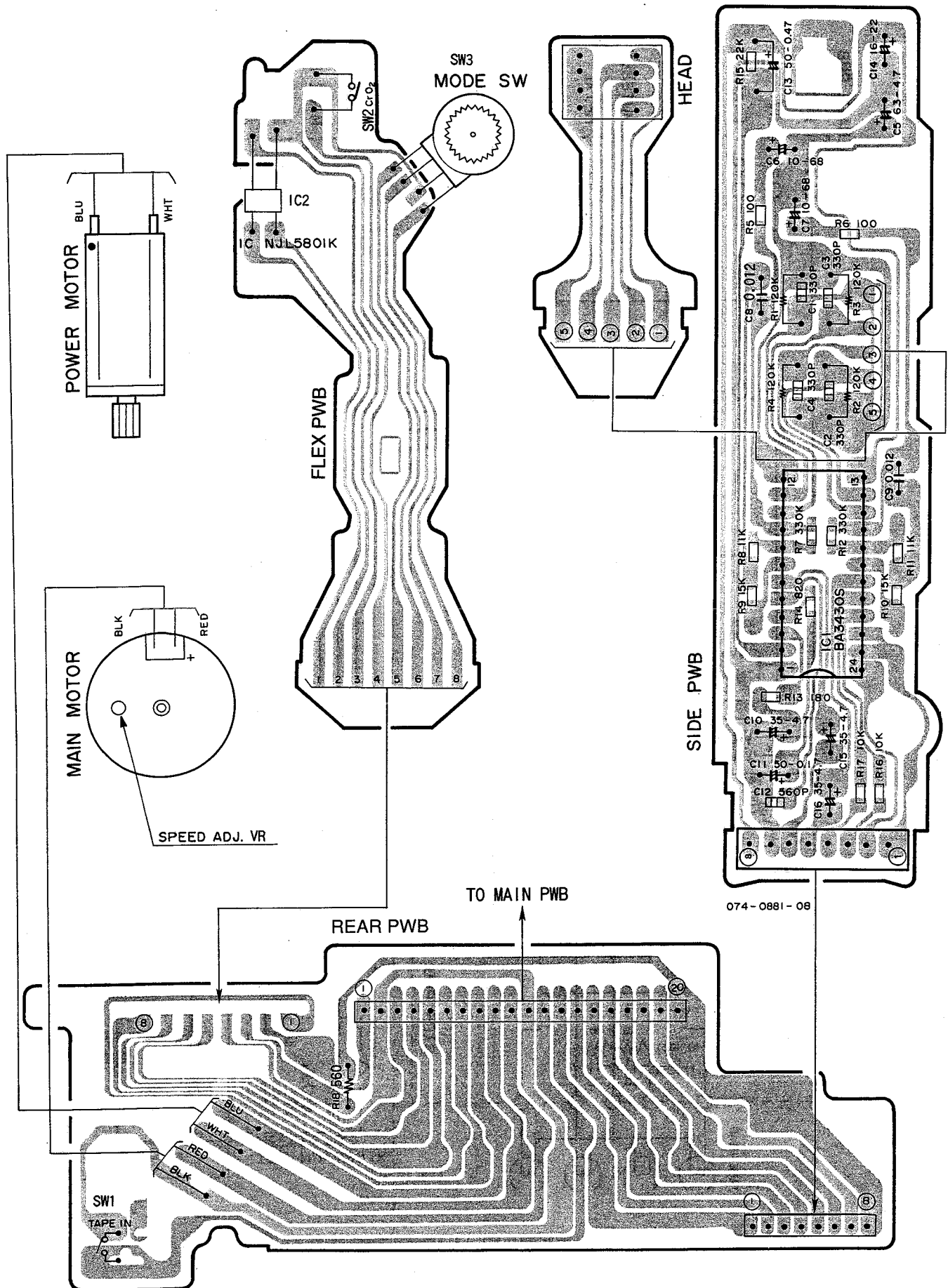
CIRCUIT DIAGRAM

Tape mechanism section



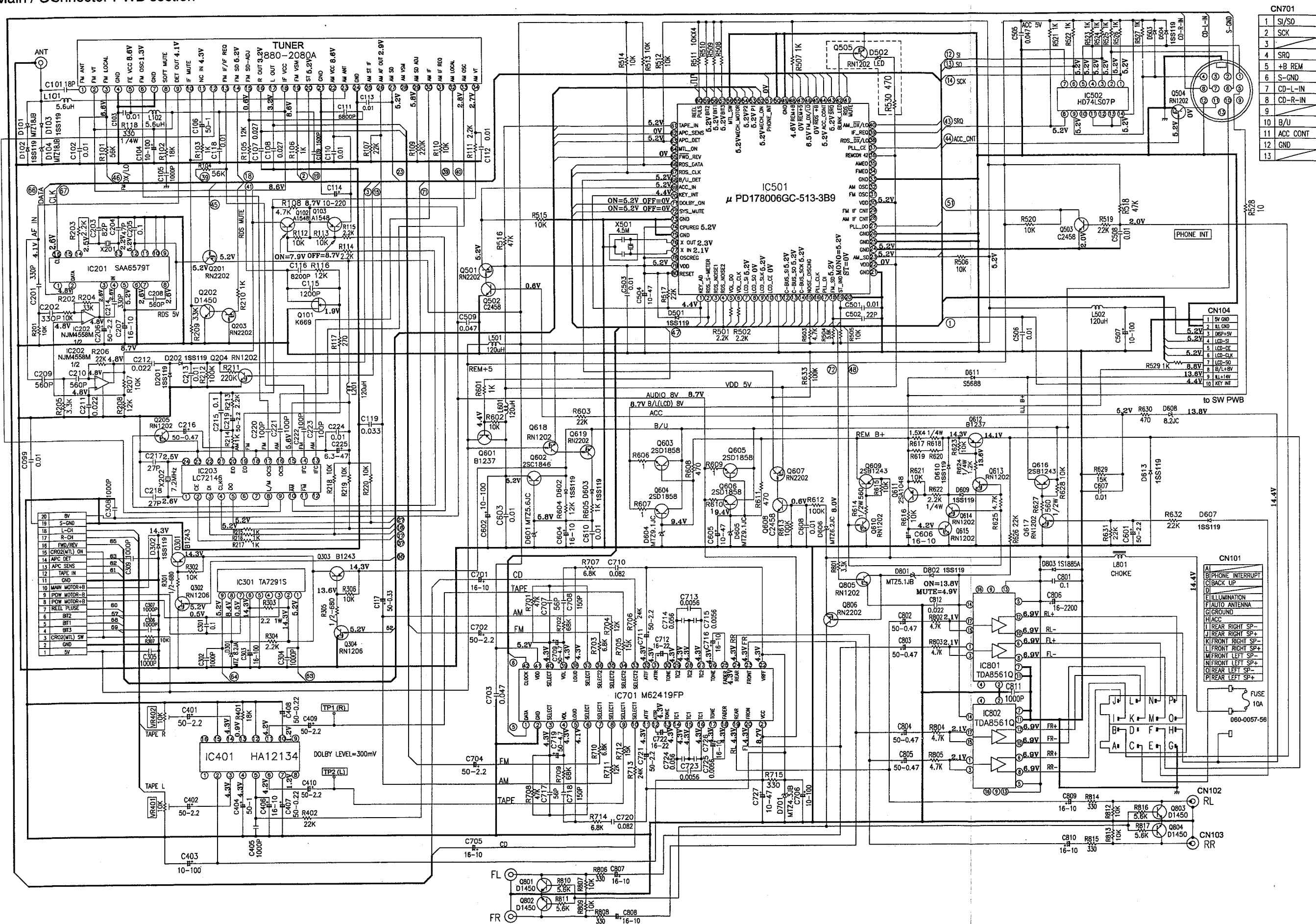
■ PRINTED WIRING BOARD

Tape mechanism section



■ CIRCUIT DIAGRAM

Main / Connector PWB section



■ PRINTED WIRING BOARD

Main / Connector PWB section

